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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO), WEST AF--ETC(U)
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PERIOD: (PRIMARY) 1930-1976
(OVER-ALL) 1879-1976

FEBRUARY

TABLE 4

AREA 0016 SKELETON COAST
19.35 9.6E

⑥

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

WEST AFRICAN AND SELECTED ISLAND COASTAL MARINE AREAS

VOLUME 3

AREA 16 - SKELETON COAST
AREA 17 - WALVIS BAY SW
AREA 18 - ALEXANDER BAY SW
AREA 19 - CAPE TOWN
AREA 20 - PORT ELIZABETH
AREA 21 - EAST LONDON
AREA 22 - DURBAN



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PREPARED BY
THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR
THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The SSMO series of coastal marine summaries is managed and produced by the Naval Weather Service Detachment, Asheville, N. C. for the Director, Naval Oceanography and Meteorology. A list of published SSMO's is contained in the catalogue part of the "Guide to Standard Weather Summaries and Climatic Services", NAVAIR 50-1C-534.

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations was punched cards of weather observations taken aboard vessels of varying registry. These observations were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area.

is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing the data file toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Okta) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH $> 4/8$) and Occurrence of NH $< 5/8$ by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH $> 4/8$) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present), and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH $> 4/8$) and Occurrence of NH $< 5/8$ by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH $> 4/8$) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature ($^{\circ}$ F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature ($^{\circ}$ F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature ($^{\circ}$ F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The Extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature ($^{\circ}$ F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference ($^{\circ}$ F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

AREA	NAME	PAGES
16	Skeleton Coast	1-79
17	Walvis Bay SW	80-158
18	Alexander Bay SW	159-237
19	Cape Town	238-316
20	Port Elizabeth	317-395
21	East London	396-474
22	Durban	475-553

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ($^{\circ}$ F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

ADDITIONAL INFO	
NTIS	WAVE SECTION
U.S.	WAVE SECTION
ORIGIN	JUSTIFICATION
BY	
DISTRIBUTION AVAILABILITY CODES	
Dist.	Avail. to the public
A	

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.

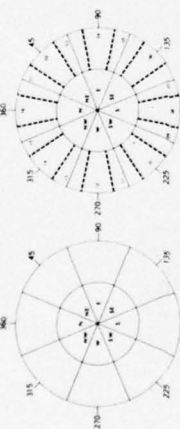


Fig 1. The 8 point direction system.

Fig 2. The 16 point direction system superimposed on the 8 point system.

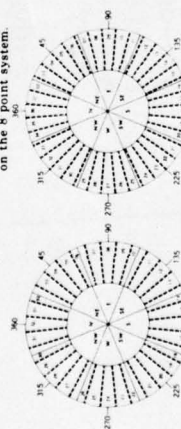


Fig 3. The 32 point direction system superimposed on the 8 point system.

Fig 4. The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)	
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION
90-93	VV<1/2	58-59	RAIN
94	1/2≤VV<1	60-65	RAIN
95	1≤VV<2	66-67	RAIN
96	2≤VV<5	68-69, 95, 97	RAIN (WITHOUT PRECIPITATION) IF TEMP >40°F
97	5≤VV<10	80-82, (83-84 IF TEMP >40°F)	RAIN SHOWERS
98	10≤VV<25	50-55, 58-59	DRIZZLE
99	VV≥25	56-57, 66-67	FREEZING PRECIPITATION
		70-75, 83-86	SNOW
		(68-69, 83-84, 95, 97 IF TEMP ≤40°F)	SNOW
		76-79	OTHER FROZEN PRECIPITATION
		87-90	HAIL
		93-94	THUNDER
		96, 99	THUNDERSTORM
		13, 17	THUNDER
		19, 29	THUNDERSTORM
		95-99	THUNDERSTORM

NOTE: < means less than; > means greater than; ≤ means less than or equal to; ≥ means greater than or equal to.

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	AS RECORDED RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	AS RECORDED RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	AS RECORDED RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25}	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75}	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25}	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75}	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25}	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75}	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25}	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}				
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		37	>18.25 to 18.75}	
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	38	>18.75 to 19.25}	61-70
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		39	>19.25 to 19.75}	
11	>5.25 to 5.75}		23	>11.25 to 11.75}		40	>19.75 to 20.25}	
			24	>11.75 to 12.25}		41	>20.25 to 20.75}	
			25	>12.25 to 12.75}		42	>20.75 to 21.25}	
			26	>12.75 to 13.25}				
			27	>13.25 to 13.75}	41-48	43	>21.25 to 21.75}	71-86
			28	>13.75 to 14.25}		44	>21.75 to 22.25}	
			29	>14.25 to 14.75}		45	>22.25 to 22.75}	
						46	>22.75 to 23.25}	
						47	>23.25 to 23.75}	
						48	>23.75 to 24.25}	
						49	>24.25 to 24.75}	
						50	>24.75 to 25.25}	
						51	>25.25 to 25.75}	
						52	>25.75 to 26.25}	
						53-99	>26.25 to 49.75}	≥87

Indeterminate=INDET

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1894-1976

JANUARY

AREA 0016 SKELETON COAST
19.35 9.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.4	.0	.0	.0	80.6
NE	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	2.2	.0	8.9	.0	86.7
E	1.5	.0	.0	.0	.0	.0	.0	1.5	2.0	.0	3.0	.0	.0	.0	93.5
SE	.1	.6	.6	.0	.0	.0	.0	1.3	1.3	.0	1.6	.0	.1	.0	95.8
S	.4	.2	.8	.0	.0	.0	.0	1.4	.7	.1	6.3	.1	1.0	.0	90.5
SW	.0	.0	3.9	.0	.0	.0	.0	3.9	.0	.0	7.5	.0	.6	.0	88.0
W	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	12.9	.0	.0	.0	83.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.2	.0	.0	.0	86.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.4	.0	.0	.0	.0	1.4	1.4	.0	18.4	.0	1.4	.0	77.3
TOT PCT	.2		.4	.0	.0	.0	.0	1.4	1.0	*	4.9	*	.6	.0	92.0
TOT OBS:	2406														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0000	.7	.4	.9	.0	.0	.0	.0	1.9	1.4	.5	2.3	.0	.0	.0	.0	93.9
0600	.0	.6	1.1	.0	.0	.0	.0	1.7	1.7	.0	6.0	.2	1.1	.0	.0	89.3
1200	.3	.3	.5	.0	.0	.0	.0	.9	.2	.0	5.4	.0	.5	.0	.0	93.0
1800	.0	.2	.8	.0	.0	.0	.0	1.0	1.2	.0	5.8	.0	.8	.0	.0	91.3
TOT PCT	.2	.4	.8	.0	.0	.0	.0	1.4	1.1	.1	4.9	*	.6	.0	.0	91.8
TOT OBS:	2472															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21
N	.4	.5	*	.0	.0	.0		1.0	4.1	1.1	3.1	.6	.0	1.4	1.0	.4	.0	
NE	.1	.3	*	.0	.0	.0		1.5	4.8	.4	.7	.9	.0	1.2	.0	.8	.0	
E	.2	1.1	.5	.0	.0	.0		1.8	8.8	1.7	2.3	2.0	.4	1.9	2.1	1.0	2.6	
SE	.9	15.2	24.1	2.1	.1	.0		42.4	12.7	44.9	38.3	43.8	61.4	42.0	36.2	38.3	48.9	
S	1.9	21.3	16.8	.9	.0	.0		40.9	10.6	40.9	39.6	38.7	27.7	41.5	41.1	44.4	42.3	
SW	.7	3.7	.8	*	.0	.0		5.2	7.7	4.5	6.2	3.1	4.5	4.9	11.4	6.4	5.1	
W	.3	1.2	.1	.0	.0	.0		1.6	6.4	1.2	2.1	.7	.8	2.4	2.9	1.7	1.1	
NW	.5	1.0	.1	.0	.0	.0		1.6	5.7	1.3	4.0	1.5	.0	1.2	4.9	1.1	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.1							5.1	.0	4.1	3.8	8.8	1.1	4.5	.5	5.9	.0	
TOT OBS	343	1529	1464	103	2	0	3441		10.5	705	211	703	94	757	204	679	88	
TOT PCT	10.0	44.4	42.5	3.0	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	.9	.1	.0	.0	.0	1.0	4.1	1.5	.6	1.3	.3
NE	.4	.1	.0	.0	.0	.5	4.8	.4	.8	.2	.7
E	.6	1.1	.1	.0	.0	1.8	8.8	1.8	2.3	1.9	1.2
SE	5.4	26.9	9.6	.3	.1	42.4	12.7	43.4	45.9	40.8	39.5
S	9.2	26.4	5.3	.1	.0	40.9	10.6	40.6	37.4	41.4	44.2
SW	2.3	2.7	.2	.0	.0	5.2	7.7	4.9	3.2	6.2	6.3
W	.9	.7	.0	.0	.0	1.6	6.4	1.4	.7	2.5	1.7
NW	1.1	.4	.0	.0	.0	1.6	5.7	2.0	1.3	2.0	1.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1					5.1	.0	4.0	7.9	3.6	5.2
TOT OBS	892	2010	523	14	2	3441	10.5	916	797	961	767
TOT PCT	25.9	58.4	15.2	.4	.1	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1894-1976

JANUARY

AREA 0016 SKELETON COAST
19.35 9.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.0	4.9	43.9	43.3	3.8	.0	.0	10.7	100.0	916
06009	7.9	5.3	43.4	41.0	2.4	.0	.0	10.1	100.0	797
12015	3.6	5.6	46.3	42.1	2.2	.1	.0	10.5	100.0	961
18021	5.2	3.5	43.8	43.7	3.7	.1	.0	10.8	100.0	767
TOT	175	168	1529	1464	103	2	0	10.5		3441
PCT	5.1	4.9	44.4	42.5	3.0	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	*	.2	*		4.1
NE	.1	.1	.1	.2		5.1
E	.5	.1	.7	1.0		5.8
SE	5.4	5.3	17.3	18.5		6.0
S	8.1	5.4	12.4	13.4		5.3
SW	.6	.5	.9	1.1		5.3
W	.1	.2	.7	.3		5.5
NW	.1	.0	.2	.1		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.2	.7	2.1	1.9		5.2
TOT OBS	347	262	734	774	2117	5.6
TOT PCT	16.4	12.4	34.7	36.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 HGT	TOTAL OBS
.0	.0	.0	.0	*	.0	*	.1	.0	.0	.0	.0	.3	
.0	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.0	.3	
.0	.0	.0	.2	.8	.2	.2	*	.0	.0	.0	.0	.7	
*	.1	.2	3.5	15.4	8.0	3.2	.5	.2	.4	14.9			
.5	.2	.3	3.2	7.2	6.7	2.4	1.1	.5	.3	16.9			
*	*	.1	.3	.7	.4	.1	.1	.0	.1	1.3			
.0	.0	*	.1	.4	.1	.1	*	*	.0	.4			
.0	.0	*	*	*	*	.0	.1	.0	.0	.2			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
.3	.0	*	.2	1.0	.9	.3	.2	.2	.1	2.6			
19	7	15	164	544	347	139	45	21	21	795			2117
.9	.3	.7	7.7	25.7	16.4	6.6	2.1	1.0	1.0	37.6			100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	2.6	3.7	3.8	3.8	3.8	3.8	3.8	3.8
= OR >3500	7.1	9.9	10.1	10.1	10.1	10.1	10.1	10.1
= OR >2000	19.5	25.6	26.4	26.4	26.5	26.5	26.5	26.5
= OR >1000	41.3	50.9	52.4	52.6	52.6	52.7	52.7	52.7
= OR >600	47.3	58.6	60.4	60.6	60.7	60.7	60.8	60.8
= OR >300	47.5	59.2	61.1	61.3	61.4	61.5	61.5	61.5
= OR >150	47.7	59.5	61.5	61.6	61.7	61.8	61.8	61.8
= OR >0	47.8	59.7	61.9	62.3	62.5	62.6	62.8	62.8
TOTAL	999	1249	1294	1302	1307	1310	1313	1313

TOTAL NUMBER OF OBS: 2091

PCT FREQ NH <5/8: 37.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.0	6.0	7.1	7.9	6.2	7.2	10.1	12.3	32.5	.8	2218

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1894-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	*	*	.1	.0	.0	.0	.0	.3	.4	
	TOT %	.0	.0	*	*	.1	.0	.0	.0	.0	.3	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	.0	.0	.0	.2	.1	.0	.0	.0	*	.3	
	TOT %	.0	.0	.0	.0	.2	.1	.0	.0	.0	.1	.3	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.1	
	TOT %	.0	.0	.0	.1	*	.0	.0	.0	.0	*	.2	
2<5	PCP	.0	*	*	.1	.1	*	.0	.0	.0	*	.3	
	NO PCP	*	*	*	.3	1.1	.2	.1	*	.0	.3	2.1	
	TOT %	*	*	.1	.4	1.1	.2	.1	*	.0	.4	2.3	
5<10	PCP	.0	.0	.0	.1	.4	*	.0	.0	.0	.0	.5	
	NO PCP	.1	.1	.1	5.9	9.6	.7	.3	.1	.0	2.6	19.6	
	TOT %	.1	.1	.1	6.0	10.0	.8	.3	.1	.0	2.6	20.1	
10+	PCP	.0	.0	.0	.3	.1	*	.0	.0	.0	.0	.5	
	NO PCP	.2	.4	1.9	40.9	27.3	2.2	.8	.2	.0	2.3	76.2	
	TOT %	.2	.4	1.9	41.3	27.5	2.2	.8	.2	.0	2.3	76.6	
TOT OBS													2342
TOT PCT		.3	.5	2.1	47.8	38.9	3.3	1.1	.4	.0	5.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	.1	.0	.0	.0	.0	.2	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	*	.0	.0	.0	.1	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.2	.0	.0	.0	.0	*	.4	
2<5	0-3	.0	.0	.0	*	.1	*	.0	.0	.0	.4	.5	
	4-10	*	*	*	.1	.2	.8	.1	*	.0	.0	1.4	
	11-21	.0	.0	.0	.2	.6	*	*	.0	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.1	.4	1.4	.2	.1	*	.0	.4	2.7	
5<10	0-3	*	.0	*	.2	.4	.1	.0	.1	.0	2.4	3.2	
	4-10	.1	.1	.1	2.6	5.7	.8	.2	.1	.0	.0	9.6	
	11-21	.0	.0	.0	2.9	3.9	.1	.0	.0	.0	.0	7.0	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.1	.1	6.0	10.0	1.0	.2	.1	.0	2.4	20.0	
10+	0-3	.1	.1	.2	.6	.8	.4	.1	*	.0	2.2	4.6	
	4-10	*	.2	1.0	13.5	13.2	1.6	.5	.2	.0	.0	30.4	
	11-21	.0	*	.5	25.0	12.7	.4	.1	*	.0	.0	38.8	
	22+	.0	.0	.0	1.8	.7	.0	.0	.0	.0	.0	2.5	
	TOT %	.2	.3	1.7	40.9	27.5	2.4	.7	.3	.0	2.2	76.3	
TOT OBS													2624
TOT PCT		.3	.4	2.0	47.5	39.4	3.7	1.0	.4	.0	5.3	100.0	

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1894-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.1	.6	.2	8.8	24.8	16.3	4.9	1.7	.6	.4	60.6	39.4	467
06009	1.0	.2	1.2	9.7	30.2	19.5	7.1	2.4	1.2	.8	73.2	26.8	590
12015	.5	.3	.7	6.1	22.1	14.7	7.6	2.0	1.0	1.0	56.1	43.9	592
18021	.2	.2	.5	6.5	22.2	13.6	6.1	2.0	.9	1.6	53.8	46.2	558
TOT	20	7	15	170	549	354	144	45	21	22	1347	860	2207
PCT	.9	.3	.7	7.7	24.9	16.0	6.5	2.0	1.0	1.0	61.0	39.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.2	.9	3.9	22.3	72.4	659
06009	.6	.6	.4	3.4	21.1	73.9	677
12015	.1	.4	.3	1.1	19.7	78.4	717
18021	.3	.0	.0	2.8	17.8	79.1	635
TOT	9	8	11	75	544	2041	2688
PCT	.3	.3	.4	2.8	20.2	75.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.3	3.2	15.6	49.0	35.4	443
06009	1.1	2.5	15.2	59.4	25.4	559
12015	.7	2.1	8.6	49.5	41.9	568
18021	.2	1.3	10.7	45.1	44.1	521
TOT	21	47	259	1065	767	2091
PCT	1.0	2.2	12.4	50.9	36.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
80/84	.0	.0	.0	.2	.1	.2	.1	.0	9	.5
75/79	.0	.0	.1	.4	2.0	1.8	.7	.2	91	5.1
70/74	.0	.0	.0	.5	7.8	23.9	12.8	3.7	860	48.6
65/69	.0	.0	.0	.1	1.2	10.3	18.1	6.6	642	36.3
60/64	.0	.0	.0	.0	.0	.2	3.6	5.6	167	9.4
TOTAL	0	0	1	20	197	644	625	283	1770	100.0
PCT	.0	.0	.1	1.1	11.1	36.4	35.3	16.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.0	.0	.1	.3	.2	.0	.0	.0	.0	.0
*	.0	.2	3.2	1.5	.1	*	*	.0	.1
.1	.3	1.8	33.4	10.5	1.4	.5	.1	.0	.6
*	.0	.5	14.8	17.5	1.6	.5	.1	.0	1.3
.0	.2	.1	2.7	5.4	.4	.0	.1	.0	.7
.2	.5	2.6	54.3	35.1	3.4	1.0	.2	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	74	72	68	62	59	55	67.2	928
06009	82	73	72	68	61	59	57	67.5	816
12015	91	81	77	71	64	61	52	71.0	966
18021	79	76	74	69	63	60	59	69.0	772
TOT	91	78	75	69	62	60	52	68.7	3482

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	3.8	32.6	39.8	23.3	82	442
06009	.0	1.1	8.8	32.6	37.7	19.8	81	454
12015	.0	2.6	24.0	41.0	25.8	6.6	76	458
18021	.0	.4	7.6	38.0	38.7	15.3	80	445
TOT	0	21	201	649	637	291	80	1799

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1894-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49	53	57	61	65	69	73	77	81	85	89	TOT	W FOG	WO FOG
52	56	60	64	68	72	76	80	84	88	92				
20/22	.0	.0	.0	.0	.0	.0	.0	.1	*	*		4	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	*	.1	*		4	*	.1
14/16	.0	.0	.0	.0	.0	.0	.2	*	.1	.0	.0	7	.1	.2
11/13	.0	.0	.0	.0	*	.4	.6	.4	.0	.0	.0	32	.5	.9
9/10	.0	.0	.0	.0	*	.5	.6	.1	*	.0	.0	30	.2	1.2
7/8	.0	.0	.0	.0	1.0	.9	.7	.4	.1	.1	.0	72	.6	2.6
6	.0	.0	.0	.0	.4	.4	.3	.2	.0	.0	.0	31	.1	1.2
5	.0	.0	.0	.3	.6	1.2	.9	.3	.0	.0	.0	72	.2	3.0
4	.0	.0	.0	1.1	1.3	1.2	1.1	.2	.0	.0	.0	112	.6	4.4
3	.0	.0	.0	1.0	.9	1.5	1.6	.1	.0	.0	.0	115	.3	4.9
2	.0	.0	*	1.8	2.4	3.3	2.1	*	*	.0	.0	220	.8	9.0
1	.0	.0	*	1.4	3.9	6.5	2.1	.0	.0	.0	.0	312	.3	13.6
0	.0	.0	.0	4.3	5.3	11.7	2.0	*	.0	.0	.0	526	.7	22.7
-1	.0	.0	*	1.9	3.5	9.3	.9	.0	.0	.0	.0	351	.5	15.1
-2	.0	.0	*	1.2	2.3	3.0	.4	.0	.0	.0	.0	155	*	6.9
-3	.0	.0	.5	.4	1.0	1.8	.1	.0	.0	.0	.0	87	.0	3.9
-4	.0	.0	.3	.5	.8	.7	*	.0	.0	.0	.0	50	.2	2.0
-5	.0	.0	.2	.1	.7	.4	.0	.0	.0	.0	.0	32	*	1.4
-6	.0	.0	.0	.2	.1	.1	*	.0	.0	.0	.0	10	.0	.4
-7/-8	.0	*	.0	.3	.1	.1	.0	.0	.0	.0	.0	13	.0	.6
-9/-10	.0	*	*	*	.2	.0	.0	.0	.0	.0	.0	7	.0	.3
-11/-13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	3	26	329	554	969	305	45	8	5	2	2247	117	2130
PCT	*	.1	1.2	14.6	24.7	43.1	13.6	2.0	.4	.2	.1	100.0	5.2	94.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	.0	.0	.0	.0	.2		.1	.3	.0	.0	.0	.0	.0	.4
1-2	*	.0	.0	.0	.0	.0	*		.1	*	.0	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.0	.0	.0	.0	.3		.2	.3	.1	.0	.0	.0	.0	.5

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.3	.0	.0	.0	.0	.5		.5	1.7	*	.0	.0	.0	.0	2.2
1-2	.0	1.0	.2	.0	.0	.0	1.2		.5	7.6	3.2	.0	.0	.0	.0	11.2
3-4	.0	.2	.3	.0	.0	.0	.5		.0	3.3	9.4	.3	.0	.0	.0	13.0
5-6	.0	.0	.1	.0	.0	.0	.1		.1	.8	7.9	.6	.1	.0	.0	9.5
7	.0	.0	.0	.0	.0	.0	.0		.0	.1	4.4	.7	.0	.0	.0	5.3
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.2	.9	.4	.0	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.2	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	.6	.0	.0	.0	2.3		1.0	13.7	26.1	2.4	.1	.0	.0	43.4

PERIOD: (OVER-ALL) 1963-1976

JANUARY

AREA 0016 SKELETON COAST
19.35 9.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	3.9	.3	.0	.0	.0		5.0	.1	.4	.0	.0	.0	.0		.5
1-2	.3	12.3	3.9	.0	.0	.0		16.6	.1	1.0	.3	.0	.0	.0		1.4
3-4	.1	3.6	5.2	.1	.0	.0		9.0	.0	.3	.2	.0	.0	.0		.4
5-6	.0	1.8	6.2	.3	.0	.0		8.2	.0	.1	.0	.0	.0	.0		.1
7	.0	.2	2.1	.2	.0	.0		2.5	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.3	.2	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.2	21.9	18.0	.8	.0	.0		41.9	.2	1.7	.4	.0	.0	.0		2.4

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.4	.0	.0	.0	.0		.5	.1	.1	.0	.0	.0	.0		.2
1-2	.0	.2	.0	.0	.0	.0		.2	.0	.1	.0	.0	.0	.0		.1
3-4	.0	.0	.1	.0	.0	.0		.1	.0	.0	.1	.0	.0	.0		.1
5-6	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	.7	.2	.0	.0	.0		1.0	.1	.2	.1	.0	.0	.0		92.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.5	7.2	.3	.0	.0	.0	18.0	
1-2	1.1	22.1	7.5	.0	.0	.0	30.6	
3-4	.1	7.5	15.2	.3	.0	.0	23.0	
5-6	.1	2.4	14.2	.8	.1	.0	17.9	
7	.0	.3	6.4	1.0	.0	.0	7.7	
8-9	.0	.2	1.2	.6	.0	.0	2.0	
10-11	.0	.0	.3	.2	.0	.0	.5	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.7	39.9	45.1	3.2	.1	.0	100.0	1785

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	.3	6.6	6.9	7.7	3.4	1.3	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	559
6-7	.0	1.1	4.2	7.0	6.8	3.6	1.4	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	525
8-9	.0	.3	1.7	5.9	5.2	3.7	1.1	1.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	403
10-11	.0	.3	.7	1.1	1.8	1.4	.7	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137
12-13	.0	.0	1.1	.7	.6	.2	.5	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67
>13	.0	.0	.0	.7	.5	.4	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35
INDET	4.4	3.7	4.1	2.3	2.0	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	369
TOTAL	98	251	389	532	424	240	88	49	19	5	0	0	0	0	0	0	0	0	0	0	2095
PCT	4.7	12.0	18.6	25.4	20.2	11.5	4.2	2.3	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1930-1976
(OVER-ALL) 1879-1976

FEBRUARY

AREA 0016 SKELETON COAST
19.35 9.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	25.0	.0	.0	.0	62.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44.4	.0	.0	.0	55.6
E	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	2.3	.0	.0	.0	96.0
SE	.2	.7	.7	.0	.0	.0	.0	1.5	1.8	.1	.8	.0	.4	.1	95.3
S	.2	.6	.4	.0	.0	.0	.0	1.2	.6	.2	3.1	.1	.7	.0	94.1
SW	.0	.0	2.7	.0	.0	.0	.0	2.7	2.2	.0	1.6	.0	.0	.0	93.4
W	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	15.5	.0	.0	.0	79.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0	90.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	4.5	.0	.0	.0	94.0
TOT PCT	.2	.6	.7	.0	.0	.0	.0	1.4	1.3	.1	2.2	*	.4	*	94.4
TOT OBS:	2503														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	.2	.5	1.0	.0	.0	.0	.0	1.6	2.1	.3	2.0	.2	.5	.0	93.3
06609	.8	.5	1.1	.0	.0	.0	.0	2.4	1.7	.2	2.8	.0	.2	.0	92.8
12615	.0	.6	.0	.0	.0	.0	.0	.6	.7	.0	2.3	.0	.6	.1	95.6
18621	.2	.8	1.0	.0	.0	.0	.0	1.9	.6	.0	2.3	.0	.8	.0	94.3
TOT PCT	.3	.6	.7	.0	.0	.0	.0	1.6	1.3	.1	2.3	*	.5	*	94.0
TOT OBS:	2554														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OHS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.4	*	.0	.0	.0		.7	4.6	.9	1.6	.4	.6	.8	1.1	.7	.0	
NE	*	.1	.0	.0	.0	.0		.1	4.3	.2	.0	.2	.0	.3	.1	.0		
E	.1	.7	.6	.0	.0	.0		1.4	10.5	1.3	1.1	1.6	3.3	1.4	1.5	.9	2.6	
SE	.7	17.0	26.6	1.6	.1	.0		45.9	12.5	44.8	46.7	45.7	61.3	47.5	41.6	42.9	60.3	
S	1.6	18.8	17.9	1.1	.0	.0		39.4	11.2	40.6	34.5	38.8	34.2	37.9	40.4	43.2	31.8	
SW	.5	3.7	.9	.0	.0	.0		5.1	7.6	5.3	7.8	4.0	.0	4.7	9.2	5.5	2.9	
W	.3	.8	.1	.0	.0	.0		1.3	6.6	.8	2.1	.6	.0	1.7	2.4	1.7	.0	
NW	.3	.6	.0	.0	.0	.0		.9	4.4	1.1	2.1	.7	.6	.9	1.4	.7	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.1							5.1	.0	5.0	4.2	7.8	.0	5.1	2.2	4.4	2.4	
TOT OBS	304	1434	1572	94	2	0	3406	100.0	10.8	727	190	688	84	758	185	689	85	
TOT PCT	8.9	42.1	46.2	2.8	.1	.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OHS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.6	.1	.0	.0	.0	.0	.7	4.6	1.0	.5	.8	.6
NE	.1	*	.0	.0	.0	.0	.1	4.3	.2	.2	.1	.1
E	.3	1.0	.2	.0	.0	.0	1.4	10.5	1.3	1.8	1.4	1.1
SE	5.3	31.2	9.2	.2	*		45.9	12.5	45.2	47.4	46.3	44.8
S	7.7	25.4	6.1	.2	.0		39.4	11.2	39.4	38.3	38.4	41.9
SW	2.4	2.6	.1	.0	.0		5.1	7.6	5.8	3.6	5.6	5.2
W	.6	.6	*	.0	.0		1.3	6.6	1.0	.5	1.9	1.6
NW	.8	.1	.0	.0	.0		.9	4.4	1.3	.7	1.0	.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	4.8	7.0	4.6	4.1
TOT OBS	781	2080	531	13	1	3406	10.8		917	772	943	774
TOT PCT	22.9	61.1	15.6	.4	*				100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1930-1976
(OVER-ALL) 1879-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.8	3.6	42.2	46.0	3.3	.1	.0	10.9	100.0	917
06009	7.0	4.7	39.8	46.0	2.6	.0	.0	10.6	100.0	772
12015	4.6	4.5	44.5	43.9	2.4	.1	.0	10.6	100.0	943
18021	4.1	2.6	41.3	49.2	2.7	.0	.0	11.2	100.0	774
TOT	173	131	1434	1572	94	2	0	10.8		3406
PCT	5.1	3.8	42.1	46.2	2.8	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL	MEAN CLOUD COVER
N	*	.1	*	.1		5.4
NE	.0	.0	.0	.1		8.0
E	.1	.2	.5	.7		6.4
SE	5.2	6.6	19.0	18.3		6.0
S	5.7	5.2	12.4	15.4		5.8
SW	.5	.4	1.4	1.5		5.9
W	.1	*	.5	.3		6.2
NW	*	.0	.3	.1		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.4	1.8	1.9		5.5
TOT OBS	276	279	778	833	2166	5.9
TOT PCT	12.7	12.9	35.9	38.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	*	.1	.0	*	.0	.0	.0	.0	.1	
.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.3	.4	.3	.1	.0	*	*	.4	
.1	.1	.6	4.3	13.6	11.3	2.6	1.1	.3	.2	19.1	
.4	.0	.5	3.3	8.2	10.8	1.7	.4	.3	.2	12.9	
.0	.1	.5	.6	.9	.2	*	*	.1	.1	1.2	
.0	.0	*	.0	.2	.3	*	.1	.0	.0	.1	
*	.0	.0	*	.1	.1	*	.0	.0	.0	.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.5	1.8	.2	.2	.5	*	1.8	
13	3	28	188	513	554	105	40	25	10	687	2166
.6	.1	1.3	8.7	23.7	25.6	4.8	1.8	1.2	.5	31.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.6	1.7	1.7	1.7	1.7	1.7	1.7
>5000	2.9	3.4	3.5	3.5	3.5	3.5	3.5	3.5
>3500	7.5	8.4	8.4	8.4	8.4	8.4	8.5	8.5
>2000	27.4	33.8	34.2	34.2	34.2	34.2	34.2	34.2
>1000	47.6	56.7	57.2	57.2	57.2	57.2	57.3	57.3
>600	54.4	65.4	66.1	66.1	66.1	66.1	66.2	66.2
>300	55.2	66.6	67.4	67.4	67.4	67.4	67.5	67.5
>150	55.4	66.7	67.5	67.5	67.5	67.6	67.7	67.7
>0	55.4	66.8	67.9	68.0	68.0	68.1	68.2	68.2
TOTAL	1205	1453	1477	1478	1479	1481	1484	1484

TOTAL NUMBER OF OBS: 2175

PCT FREQ NH <5/8: 31.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
6.2	4.5	7.2	7.3	6.2	5.6	9.6	16.4	36.5	2353

PERIOD: (PRIMARY) 1930-1976
(OVER-ALL) 1879-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.2
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*
	TOT %	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*
2<5	PCP	.0	.0	.0	.1	.0	.0	*	.0	.0	*	.2
	NO PCP	.1	.0	.0	.2	.4	*	*	*	.0	.1	.9
	TOT %	.1	.0	.0	.3	.4	*	*	*	.0	.2	1.1
5<10	PCP	.0	.0	.0	.3	.3	.1	.0	.0	.0	*	.7
	NO PCP	.1	.1	.3	6.2	7.1	.7	.3	.2	.0	1.0	15.9
	TOT %	.1	.1	.3	6.5	7.4	.8	.3	.2	.0	1.1	16.6
10+	PCP	.0	.0	.0	.4	.2	*	.0	.0	.0	.0	.6
	NO PCP	.1	*	1.5	42.1	30.2	2.8	.5	.2	.0	4.1	81.5
	TOT %	.1	*	1.5	42.5	30.4	2.9	.5	.2	.0	4.1	82.1
TOT OBS												2492
TOT PCT												
		.3	.1	1.7	49.3	38.4	3.7	.8	.4	.0	5.3	100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	*	.0	.0	*	.0	.0	.1
2<5	0-3	.0	.0	.0	*	*	.0	*	.1	.0	.1	.3
	4-10	.1	.0	.0	.2	.4	.0	.0	*	.0	.0	.7
	11-21	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.3	.6	.1	*	.1	.0	.1	1.4
5<10	0-3	.1	*	*	.1	.3	.1	.1	.1	.0	1.0	2.0
	4-10	.1	*	.2	2.4	3.5	.6	.2	*	.0		6.9
	11-21	.0	.0	.1	3.7	3.2	.1	*	.0	.0		7.0
	22+	.0	.0	.0	.1	.2	.0	.0	.0	.0		.3
	TOT %	.2	*	.2	6.3	7.2	.8	.3	.1	.0	1.0	16.2
10+	0-3	.0	.0	.1	.6	1.0	.2	.1	.1	.0	3.9	5.9
	4-10	.1	*	.6	15.6	14.1	2.3	.3	.1	.0		33.2
	11-21	.0	.0	.7	25.0	14.2	.6	*	.0	.0		40.5
	22+	.0	.0	.0	1.7	.8	.0	.0	.0	.0		2.5
	TOT %	.1	*	1.4	42.9	30.1	3.1	.5	.2	.0	3.9	82.1
TOT OBS												2778
TOT PCT												
		.4	.1	1.6	49.5	38.1	4.0	.8	.5	.0	5.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1930-1976
(OVER-ALL) 1879-1976AREA 0016 SKELETON COAST
19.35 9.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 1507	NH <5/8 ANY HGT	TOTAL OBS
00003	1.3	.0	1.5	9.3	24.9	17.7	5.3	1.5	.9	.4	62.9	37.1	453
06009	.5	.2	1.7	9.9	27.1	30.6	5.4	2.9	1.9	.5	80.6	19.4	594
12015	.6	.2	1.0	6.6	18.4	25.5	4.2	1.8	1.0	.2	59.5	40.5	619
18021	.0	.2	1.0	9.0	22.3	25.3	4.5	.9	1.0	.7	64.9	35.1	578
TOT PCT	13 .6	3 .1	29 1.3	194 8.6	517 23.0	566 25.2	108 4.8	40 1.8	27 1.2	10 .4	1507 67.2	737 32.8	2244 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.1	.0	1.8	19.1	78.8	707
06009	.7	.0	.0	1.8	17.8	79.7	685
12015	.0	.0	.1	1.2	15.2	83.5	769
18021	.0	.0	.1	.7	14.8	84.3	668
TOT PCT	6 .2	1 *	2 .1	39 1.4	473 16.7	2308 81.6	2829 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.2	3.0	13.4	51.2	35.4	432
06009	.5	2.6	13.5	68.5	18.0	577
12015	.7	1.8	9.1	51.5	39.4	606
18021	.0	1.3	11.3	54.5	34.3	560
TOT PCT	12 .6	46 2.1	254 11.7	1233 56.7	688 31.6	2175 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.1	.0	.0	.1	.0	.0	.0	2	.1
80/84	.0	.0	.0	.1	.3	.3	.1	.0	15	.8
75/79	.0	.0	.1	.9	3.1	3.4	1.6	.4	172	9.4
70/74	.0	.0	.0	.7	7.3	26.4	17.7	4.9	1043	56.9
65/69	.0	.0	.0	.0	.7	5.1	13.5	7.3	488	26.6
60/64	.0	.0	.0	.0	.0	.7	2.8	2.5	110	6.0
55/59	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL PCT	0 .0	1 .1	1 .1	30 1.6	208 11.4	657 35.9	655 35.8	260 15.3	1832	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
.0	.0	.0	.5	.2	.1	.0	.0	.0	.0
.1	.0	.2	5.9	2.5	.5	.0	.1	.0	.1
.0	.0	1.7	36.5	16.6	1.3	.3	*	.0	.5
.1	*	*	11.1	12.6	1.6	.2	.3	.0	.8
.1	.0	.1	1.6	3.0	.4	.1	.1	.0	.8
.0	.0	.0	*	*	.0	.0	.0	.0	.1
.3	*	2.1	55.7	35.0	3.7	.6	.5	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	75	73	69	63	59	56	68.1	931
06009	84	76	73	69	62	59	57	68.3	779
12015	89	81	78	72	65	61	54	71.8	943
18021	86	79	75	70	63	59	57	69.7	781
TOT	89	79	76	70	63	59	54	69.5	3434

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	6.0	31.5	39.7	22.5	82	463
06009	.0	.7	7.9	32.1	37.5	21.9	82	443
12015	.0	4.1	19.9	40.7	28.3	6.9	76	508
18021	.0	1.6	10.0	37.3	37.8	13.3	80	450
TOT	0	32	209	663	664	296	80	1864

FEBRUARY

PERIOD: (PRIMARY) 1930-1976
(OVER-ALL) 1879-1976

TABLE 17

AREA 0016 SKELETON COAST
19.35 9.6EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53	57	61	65	69	73	77	81	85	89	TOT	W FOG	WD FOG
	56	60	64	68	72	76	80	84	88	92			
17/19	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	4	.0	.2
14/16	.0	.0	.0	.0	*	.0	*	.1	*	*	6	.0	.3
11/13	.0	.0	.0	.0	*	.2	.1	.1	.0	.0	11	.0	.5
9/10	.0	.0	.0	.0	.1	.4	.1	.0	*	.0	14	.1	.5
7/8	.0	.0	*	*	.6	.5	.3	*	.0	.0	35	.1	1.4
6	.0	.0	.0	.1	.6	.3	*	.1	.0	.0	26	*	1.1
5	.0	.0	.0	.6	.8	.6	.7	.2	.0	.0	67	.1	2.8
4	.0	.0	.1	1.0	.8	.7	.4	.0	.0	.0	71	.1	2.9
3	.0	.0	.1	1.1	1.0	1.8	.4	*	.0	.0	107	.2	4.4
2	.0	.0	.6	1.7	2.2	2.6	.3	.0	.0	.0	174	.2	7.2
1	.0	.0	.5	2.2	4.3	4.6	.1	*	.0	.0	277	.2	11.6
0	.0	.0	2.4	3.7	8.1	4.1	.1	.0	.0	.0	433	.1	18.3
-1	.0	*	1.1	4.3	9.3	3.0	.0	.0	.0	.0	416	.3	17.3
-2	.0	*	2.3	2.6	5.2	1.1	*	.0	.0	.0	267	.4	10.9
-3	.0	*	1.4	2.2	2.7	.6	.0	.0	.0	.0	163	.3	6.6
-4	.0	.4	2.2	1.1	1.4	.2	.0	.0	.0	.0	125	.1	5.2
-5	*	.1	1.7	.8	.8	.2	.0	.0	.0	.0	86	.2	3.5
-6	.0	.1	.4	.3	.2	.0	.0	.0	.0	.0	25	*	1.0
-7/-8	.0	.0	.3	.5	.2	.0	.0	.0	.0	.0	21	.1	.8
-9/-10	*	.1	.2	.3	*	*	.0	.0	.0	.0	17	.0	.7
-11/-13	.0	.1	.1	.1	.0	*	.0	.0	.0	.0	10	.0	.4
-17/-19	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	24	321	532	904	492	62	16	2	1	2356	59	2297
PCT	.1	1.0	13.6	22.6	38.4	20.9	2.6	.7	.1	*	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.1	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.3	1.8	.3	.0	.0	.0	2.4
1-2	.0	.4	.3	.0	.0	.0	.8	.1	8.0	3.3	.0	.0	.0	11.4
3-4	.0	.2	.3	.0	.0	.0	.5	.0	6.8	9.4	*	.0	.0	16.2
5-6	.0	.0	.4	.0	.0	.0	.4	*	1.2	9.6	.2	.0	.0	11.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.3	3.8	.6	.1	.0	4.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	1.0	.2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.2	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	1.0	.0	.0	.0	1.7	.4	18.3	27.9	1.2	.1	.0	47.9

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0016 SKELETON COAST
19.35 9.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	2.8	.2	.0	.0	.0		3.4	.1	.4	.1	.0	.0	.0		.6
1-2	.3	8.8	2.7	.0	.0	.0		11.8	.1	1.2	.1	.0	.0	.0		1.3
3-4	.2	5.2	6.2	.2	.0	.0		11.8	.0	.3	.5	.0	.0	.0		.8
5-6	.1	1.3	5.6	.2	.0	.0		7.0	.0	.1	.1	.0	.0	.0		.1
7	.0	.2	3.0	.3	.0	.0		3.4	.0	.0	.0	.0	.0	.0		*
8-9	.0	.0	.7	.3	.0	.0		1.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.1	.2	.1	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		*
13-16	.0	.0	.2	*	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.9	18.5	18.9	.9	.0	.0		39.2	.2	2.0	.7	.0	.0	.0		2.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.1	.0	.0	.0	.0		.2	.1	.1	.0	.0	.0	.0		.2	
1-2	.2	*	.0	.0	.0	.0		.2	.1	.0	.0	.0	.0	.0		.1	
3-4	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	*	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	.2	*	.0	.0	.0		.5	.2	.1	.0	.0	.0	.0		.3	92.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.9	5.4	.7	.0	.0	.0	15.0	
1-2	.9	18.5	6.3	.0	.0	.0	25.6	
3-4	.2	12.5	16.2	.2	.0	.0	29.1	
5-6	.1	2.5	15.4	.2	.0	.0	18.2	
7	.0	.5	6.7	.8	.1	.0	8.1	
8-9	.0	.1	1.8	.5	.0	.0	2.3	
10-11	.0	.3	.7	.3	.0	.0	1.3	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.2	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.0	39.7	48.1	2.1	.1	.0	100.0	1759

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	4.5	9.8	7.9	3.9	.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	596	4
6-7	.0	.8	5.0	8.2	7.8	3.1	2.2	.8	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	599	6
8-9	.0	.3	1.9	3.2	4.8	2.8	2.2	1.2	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	369	7
10-11	.0	.1	.7	1.3	1.7	.5	.6	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	7
12-13	.0	.0	.7	.7	.5	.5	.3	.3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	7
>13	.0	.0	.0	.2	.5	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	8
INDET	3.7	2.5	5.1	3.0	1.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	340	3
TOTAL	90	170	489	518	435	172	138	55	34	4	3	1	0	0	0	0	0	0	0	2109	5
PCT	4.3	8.1	23.2	24.6	20.6	8.2	6.5	2.6	1.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1931-1976
(OVER-ALL) 1884-1976

MARCH

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWK	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36.6	.0	7.3	.0	50.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38.5	.0	.0	.0	61.5
E	2.5	5.1	.0	.0	.0	.0	.0	7.6	.0	.0	5.1	.0	.0	.0	87.3
SE	.2	.7	1.1	.0	.0	.0	.0	2.1	1.1	.0	1.3	.0	.4	.0	95.0
S	.4	.2	1.1	.0	.0	.0	.0	1.7	1.0	.4	3.5	.1	.6	.0	92.8
SW	.0	.0	.5	.0	.0	.0	.0	.5	2.8	.2	3.0	.0	4.2	.0	89.3
W	5.2	.0	.0	.0	.0	.0	.0	5.2	.0	5.2	27.3	.0	.0	.0	62.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43.8	.0	3.1	.0	53.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	.0	.8	.0	.0	.0	.0	3.3	.0	.0	9.8	.0	3.3	.0	83.7
TOT PCT	.4														
TOT OBS: 2946	2946	.5	1.1	.0	.0	.0	.0	2.0	1.1	.2	3.2	*	.8	.0	92.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWK	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0000	.7	.9	1.7	.0	.0	.0	.0	3.3	1.3	.9	2.7	.0	.7	.0	91.2
0600	.9	.4	1.6	.0	.0	.0	.0	2.8	1.7	.0	4.4	.1	1.0	.0	89.9
1200	.0	.4	.2	.0	.0	.0	.0	.6	.4	.0	3.3	.0	.7	.0	95.0
1800	.3	.3	.7	.0	.0	.0	.0	1.3	.9	.1	3.1	.0	.6	.0	94.0
TOT PCT	.5														
TOT OBS: 2990	2990	.5	1.0	.0	.0	.0	.0	2.0	1.0	.2	3.4	*	.8	.0	92.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.5	.0	.0	.0	.0		.6	5.5		1.0	2.2	.4	.0	.3	.5	.4	.9
NE	* .2	.0	.0	.0	.0	.1		.2	6.0		.5	.7	.1	.0	.1	.0	.3	.0
E	.1	.7	.2	*	.0	.0		1.0	8.5		.8	.8	1.3	2.7	1.3	.7	.7	.0
SE	.6	13.9	25.8	2.9	.1	.0		43.2	13.4		43.6	39.7	45.5	64.3	41.5	42.2	40.0	48.5
S	1.0	18.6	21.4	2.7	*	.0		43.6	12.1		42.2	41.0	41.1	26.5	45.0	43.9	48.8	47.3
SW	.4	4.0	1.2	.2	.0	.0		5.7	8.6		5.2	10.4	4.4	4.6	5.5	10.5	5.9	3.0
W	.3	.6	.2	.0	.0	.0		1.1	7.2		1.6	1.9	.7	.0	1.2	1.4	1.0	.0
NW	.1	.4	.0	*	.0	.0		.6	5.9		.8	2.2	.6	.0	.5	.2	.2	.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0		4.3	1.0	6.0	1.9	4.7	.5	2.7	.0
TOT OBS	257	1543	1933	229	4	0	3966		11.8		811	206	839	103	939	209	775	84
TOT PCT	6.5	38.9	48.7	5.8	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	.4	.2	.0	.0	.0	.0	.6	5.5	1.2	.4	.3	.4
NE	.2	.1	.0	.0	.0	.0	.2	6.0	.5	.1	.1	.3
E	.4	.5	.1	.0	.0	.0	1.0	8.5	.8	1.4	1.2	.6
SE	4.2	27.0	11.4	.5	.0		43.2	13.4	42.8	47.5	41.6	40.9
S	7.4	27.1	8.6	.5	.0		43.6	12.1	41.9	39.5	44.8	48.6
SW	2.3	3.1	.3	*	.0	.0	5.7	8.6	6.3	4.4	6.4	5.6
W	.5	.5	.1	.0	.0	.0	1.1	7.2	1.6	.6	1.2	.9
NW	.4	.1	*	.0	.0	.0	.6	5.9	1.1	.6	.4	.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	3.6	5.5	3.9	2.4
TOT OBS	784	2327	813	42	0	3966		11.8	1017	942	1148	859
TOT PCT	19.8	58.7	20.5	1.1	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1931-1976
(OVER-ALL) 1884-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	3.6	2.5	40.7	48.0	5.0	.2	.0	11.6	100.0	1017
06609	5.5	2.8	37.6	48.4	5.7	.0	.0	11.6	100.0	942
12615	3.9	3.2	39.8	47.0	5.9	.1	.0	11.7	100.0	1148
18621	2.4	1.6	37.0	52.3	6.5	.1	.0	12.3	100.0	859
TOT	155	102	154.3	193.3	22.9	.4	.0	11.8		3966
PCT	3.9	2.6	38.9	48.7	5.8	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	*	*	.1	.1		6.2
NE	.0	.1	.0	*		5.2
E	.2	*	.3	.5		5.9
SE	4.4	5.9	16.3	19.0		6.1
S	7.4	5.1	13.1	19.2		5.7
SW	1.0	.3	.8	1.3		4.9
W	.2	*	.2	.2		5.1
NW	.1	.1	*	.1		4.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.6	1.4	1.4		5.3
TOT OBS	370	322	853	1107	2652	5.9
TOT PCT	14.0	12.1	32.2	41.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 14°	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 HGT	TOTAL OBS
.0	*	*	.1	.1	*	.0	.0	.0	.0	.0	.1	
*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	
*	.0	*	.1	.3	.2	.0	.0	.0	.0	.0	.3	
.2	.0	.5	5.3	13.0	10.1	3.1	.1	.2	.2	12.8		
.3	.0	.5	5.3	10.3	10.2	2.4	.3	.2	.4	14.8		
*	*	.1	.4	.5	.5	.2	*	.1	.0	1.5		
.0	*	.0	*	.1	.1	*	.0	*	.0	.2		
*	.0	.0	*	.0	.0	.0	.0	.0	.0	.1		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
*	.0	.1	.2	.6	.8	.3	*	.1	.0	2.0		
19	1	32	305	660	581	159	13	17	16	849	2652	
.7	*	1.2	11.5	24.9	21.9	6.0	.5	.6	.6	32.0	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	6.0	7.4	7.7	7.7	7.7	7.8	7.8	7.8
= OR >2000	21.9	28.7	29.4	29.4	29.4	29.4	29.5	29.5
= OR >1000	41.1	52.7	54.3	54.3	54.3	54.4	54.4	54.4
= OR >600	48.9	63.7	65.7	65.8	65.8	65.9	65.9	65.9
= OR >300	49.5	64.9	66.9	67.0	67.1	67.1	67.1	67.1
= OR >150	49.5	64.9	67.0	67.1	67.1	67.1	67.2	67.2
= OR >0	49.5	65.2	67.4	67.5	67.6	67.7	67.8	67.9
TOTAL	1319	1737	1795	1798	1799	1803	1806	1807

TOTAL NUMBER OF OBS: 2663

PCT FREQ NH <5/8: 32.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.6	4.4	5.5	6.0	7.5	7.8	9.2	13.3	37.1	.6	2805

PERIOD: (PRIMARY) 1931-1976
(OVER-ALL) 1884-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	.0	.0	.1	.2	*	*	.0	.0	*	*	.4
	TOT %	.0	.0	.0	.1	.2	*	*	.0	.0	.1	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	TOT %	*	.0	.0	*	.0	*	*	*	.0	.0	.1	
2<5	PCP	.0	.0	.0	.2	.2	*	.0	.0	.0	*	.5	
	NO PCP	*	*	*	.4	1.1	.1	.0	.0	.0	.2	1.9	
	TOT %	*	*	*	.6	1.3	.1	.0	.0	.0	.3	2.4	
5<10	PCP	.0	.0	*	.4	.2	.0	.0	.0	.0	.1	.7	
	NO PCP	.2	.1	.2	7.0	11.7	1.5	.3	.1	.0	1.9	23.0	
	TOT %	.2	.1	.3	7.4	11.9	1.5	.3	.1	.0	2.0	23.7	
10+	PCP	.0	.0	*	.3	.3	.0	*	.0	.0	.0	.6	
	NO PCP	.1	*	.7	37.1	30.6	2.0	.3	.1	.0	1.8	72.7	
	TOT %	.1	*	.7	37.3	30.9	2.0	.3	.1	.0	1.8	73.4	
TOT OBS													2943
TOT PCT		.3	.1	1.0	45.5	44.3	3.7	.7	.3	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.2	*	*	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	.1	.2	*	*	.0	.0	.1	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	0-3	.0	.0	.0	*	*	.0	.1	*	.0	.0	.1	
	4-10	*	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	.1	*	*	.1	*	.0	.0	.2	
2<5	0-3	.0	.0	.0	*	*	.1	.0	.0	.0	.3	.5	
	4-10	*	*	*	.4	.7	.1	*	.0	.0	.0	1.3	
	11-21	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	.6	1.3	.2	*	.0	.0	.3	2.5	
5<10	0-3	*	*	.1	.2	.3	.1	.1	*	.0	2.0	2.9	
	4-10	.1	.1	.1	2.2	4.7	.9	.2	.1	.0	.0	8.4	
	11-21	.0	.0	*	4.1	5.6	.3	.0	.0	.0	.0	10.0	
	22+	.0	.0	.0	.8	.7	.1	.0	.0	.0	.0	1.6	
	TOT %	.2	.1	.2	7.2	11.4	1.4	.3	.1	.0	2.0	22.9	
10+	0-3	.0	.0	.0	.1	.5	.2	.1	.0	.0	1.9	2.9	
	4-10	.1	*	.6	11.5	12.4	1.5	.1	.1	.0	.0	26.3	
	11-21	.0	.0	.2	23.8	15.8	.3	.1	.0	.0	.0	40.1	
	22+	.0	.0	*	2.2	2.2	.1	.0	*	.0	.0	4.5	
	TOT %	.1	*	.8	37.6	30.9	2.1	.3	.2	.0	1.9	73.9	
TOT OBS													3277
TOT PCT		.4	.1	1.1	45.6	43.8	3.7	.8	.3	.0	4.2	100.0	

PERIOD: (PRIMARY) 1931-1976
(OVER-ALL) 1884-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	1.3	.0	.9	9.7	24.6	21.7	5.6	.2	.7	1.1	65.6	34.4	558
06609	1.2	.0	1.6	11.8	28.9	23.2	6.0	1.0	.7	.7	75.2	24.8	729
12615	.1	.1	1.3	9.6	20.7	19.7	6.2	.5	1.0	.5	59.8	40.2	763
18621	.3	.0	.9	13.9	24.4	21.7	5.8	.1	.0	.1	67.4	32.6	668
TOT PCT	19 .7	1 *	33 1.2	306 11.3	669 24.6	585 21.5	161 5.9	13 .5	17 .6	16 .6	1820 67.0	898 33.0	2718 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.5	.0	.1	2.3	22.8	74.4	800
06609	1.1	.1	.6	2.5	23.3	72.4	833
12615	.2	.0	.1	2.4	20.8	76.5	928
18621	.1	.0	.0	2.9	25.3	71.7	759
TOT PCT	16 .5	1 *	7 .2	83 2.5	761 22.9	2452 73.9	3320 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	1.1	2.0	13.7	54.1	32.2	540
06609	1.3	3.5	17.7	58.8	23.6	713
12615	.1	1.7	13.9	47.1	38.9	753
18621	.3	1.2	17.2	51.4	31.4	657
TOT PCT	18 .7	57 2.1	418 15.7	1404 52.7	841 31.6	2663 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	*	.0	.0	.0	.0	.0	1	*
85/89	.0	.0	.0	*	.0	.0	.0	.0	1	*
80/84	.0	.0	*	*	.5	.3	.1	.0	21	.9
75/79	.0	.0	.0	.3	1.6	3.9	1.4	.2	167	7.5
70/74	.0	.0	.0	.3	5.2	20.9	22.0	5.5	1209	54.0
65/69	.0	.0	.0	.0	.5	4.0	12.0	10.1	596	26.6
60/64	.0	.0	.0	.0	.0	.6	3.3	7.0	243	10.8
55/59	.0	.0	.0	.0	.0	.0	*	*	2	.1
TOTAL	0	0	2	16	175	664	870	513	2240	100.0
PCT	.0	.0	.1	.7	7.8	29.6	38.8	22.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	*	.0	.0	.0	.0	.0
.0	.0	*	.5	.4	*	.0	.0	.0	.0
.0	.0	.2	4.6	2.3	.2	.1	.0	.0	*
.1	*	.6	35.2	16.4	.8	.1	.0	.0	.8
.1	.1	.2	8.4	15.2	1.5	.1	.1	.0	.9
.2	.0	.0	2.9	6.4	.4	.2	.1	.0	.8
.0	.0	.0	*	*	.0	.0	.0	.0	.0
.4	.1	1.0	51.6	40.8	2.9	.4	.2	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MJN	MEAN	TOTAL OBS
00603	86	75	73	68	61	58	55	67.8	1030
06609	86	76	74	69	62	57	54	68.3	948
12615	91	82	78	72	64	61	59	71.7	1139
18621	79	76	74	70	63	59	55	69.2	870
TOT	91	79	76	70	62	59	54	69.3	3987

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.5	3.0	25.6	43.4	27.4	84	558
06609	.0	.5	6.7	24.1	38.0	30.8	84	582
12615	.0	1.9	15.9	40.1	31.8	10.4	78	579
18621	.0	.2	5.3	27.8	41.7	25.0	83	544
TOT	0	18	177	666	874	528	82	2263

PERIOD: (PRIMARY) 1931-1976
(OVER-ALL) 1884-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WQ FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	6	*	.2
14/16	.0	.0	.0	.0	*	.3	.3	*	.1	*	19	*	.6
11/13	.0	.0	.0	.0	.3	.5	.2	.1	*	.0	32	*	1.1
9/10	.0	.0	.0	.1	.5	.3	.2	.1	.0	.0	33	.1	1.0
7/8	.0	.0	.0	.3	.4	.5	.3	*	.0	.0	41	.2	1.3
6	.0	.0	.0	.3	.3	.2	.2	*	.0	.0	28	*	1.0
5	.0	.0	*	.9	.4	.6	.1	.1	.0	.0	59	.2	1.9
4	.0	.0	1.2	1.0	.5	.5	.5	.0	.0	.0	104	.3	3.5
3	.0	.0	.5	.5	1.2	1.1	.3	.0	.0	.0	100	.1	3.5
2	.0	.0	1.2	2.2	1.9	1.7	.3	.1	.0	.0	203	.2	7.1
1	.0	.0	.8	1.6	3.9	2.8	.2	.0	.0	.0	257	.3	8.9
0	.0	*	2.2	3.1	7.6	3.5	.1	.0	.0	.0	460	.4	16.2
-1	.0	.1	1.5	2.9	9.9	2.9	.1	*	.0	.0	483	.1	17.3
-2	.0	.1	1.9	2.8	6.0	1.4	*	.0	.0	.0	336	.4	11.7
-3	.0	.3	1.7	2.5	3.0	.4	.0	.0	.0	.0	217	.3	7.5
-4	.0	.3	1.7	1.0	1.8	.4	.0	.0	.0	.0	146	.5	4.8
-5	.0	.3	1.3	.7	1.2	.2	.0	.0	.0	.0	101	.2	3.4
-6	.0	.2	.8	.3	.4	.2	.0	.0	.0	.0	60	.0	2.2
-7/-8	.1	.1	.6	.5	*	*	*	.0	.0	.0	54	.0	1.9
-9/-10	.1	.1	*	.4	.2	.0	.0	.0	.0	.0	20	.0	.7
-11/-13	.0	*	.1	.1	*	.0	.0	.0	.0	.0	8	.0	.3
-14/-16	.0	.0	*	*	.0	.0	.0	.0	.0	.0	2	.0	.1
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	6		431		1105		82		3		101		2671
PCT	.2	1.4	15.5	21.5	39.9	17.7	3.0	.7	.1	*	2772	3.6	96.4

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*
3-4	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*
5-6	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	*	1.8	.1	.0	.0	.0	1.9
1-2	.0	.3	.0	.0	.0	.0	.3	.0	5.1	3.6	.0	.0	.0	8.7
3-4	.0	.1	.1	.0	.0	.0	.2	*	3.3	9.7	.3	.0	.0	13.4
5-6	*	.1	.1	*	.0	.0	.3	*	1.4	7.9	.8	.0	.0	10.1
7	.0	.0	.0	.0	.0	.0	.0	*	.4	4.6	.9	.1	.0	6.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.6	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.2	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.2	*	.0	.0	1.1	.1	12.2	27.3	2.9	.1	.0	42.6

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTIUN VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	2.8	.1	.0	.0	.0		3.2	.1	.3	.0	.0	.0	.0		.4
1-2	.2	8.4	2.9	.0	.0	.0		11.6	*	1.8	.1	.0	.0	.0		2.0
3-4	.1	4.8	8.5	.3	.0	.0		13.8	*	.2	.4	*	.0	.0		.6
5-6	.0	1.9	7.0	.8	.0	.0		9.7	.0	*	.2	*	.0	.0		.2
7	*	.5	3.8	1.0	.0	.0		5.4	.0	.1	.1	.1	.0	.0		.3
8-9	.0	.1	1.5	.7	.0	.0		2.2	.0	.0	.0	.1	.0	.0		.1
10-11	.0	.1	.9	.5	.0	.0		1.6	.0	.0	.0	*	.0	.0		*
12	.0	.0	.1	.1	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	*	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	18.7	24.8	3.4	.0	.0		47.6	.1	2.5	.7	.2	.0	.0		3.6

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.1	.0	.0	.0	.0		.2	*	.1	.0	.0	.0	.0		.1
1-2	.0	.1	.0	.0	.0	.0		.1	.0	.1	.0	.0	.0	.0		.1
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	*	.0	.0	.0		*	.0	*	.0	.0	.0	.0		.1
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	.2	*	.0	.0	.0		.4	*	.2	.0	*	.0	.0		95.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	5.5	.2	.0	.0	.0	10.6	
1-2	.3	15.8	6.6	.0	.0	.0	22.8	
3-4	.2	8.5	18.6	.7	.0	.0	28.0	
5-6	.1	3.5	15.1	1.7	.0	.0	20.4	
7	*	1.1	8.4	2.0	.1	.0	11.6	
8-9	.0	.1	2.4	1.3	.0	.0	3.9	
10-11	.0	.1	1.3	.7	.0	.0	2.2	
12	.0	*	.2	.1	.0	.0	.4	
13-16	.0	.0	*	*	.0	.0	.1	
17-19	.0	*	.0	*	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.7	34.8	52.8	6.6	.1	.0	100.0	2170

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.4	3.6	7.2	4.9	3.2	.8	.7	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	543	4
6-7	.0	.5	4.2	9.9	7.9	4.6	2.8	.7	.4	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	799	6
8-9	.0	.5	1.8	3.1	4.4	4.1	2.8	1.2	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	488	7
10-11	.0	.2	.4	.6	1.4	1.4	1.4	.7	.6	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	175	8
12-13	.0	.0	1.2	.2	.7	.4	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	7
>13	.0	.0	.0	.4	.3	.3	.2	.2	.1	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	40	9
INDET	2.9	2.8	4.4	3.0	1.8	.8	.9	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	428	4
TOTAL	84	194	497	570	503	320	242	89	57	4	2	3	0	0	0	0	0	0	0	0	2569	6
PCT	3.3	7.6	19.3	22.2	19.6	12.5	9.4	3.5	2.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1881-1976

APRIL

AREA 0016 SKELETON COAST
19.45 9.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	.0	.0	.0	88.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.2	.4	.0	.0	.0	.0	.5	.2	.2	.5	.0	.4	.0	98.2
S	.4	.1	.5	.0	.0	.0	.0	1.0	.2	.2	2.2	.0	1.5	.0	94.9
SW	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	3.1	3.5	.0	.8	1.6	91.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	.0	14.3	.0	79.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.2	.0	3.6	.0	76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	16.4	1.6	1.6	.0	78.7
TOT PCT	.2	.1	.4	.0	.0	.0	.0	.7	.2	.3	1.8	*	1.0	*	96.0
TOT OBS:	2368														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	.4	.5	.4	.0	.0	.0	.0	1.2	.0	1.1	2.5	.0	.7	.0	94.7
06009	.3	.0	.8	.0	.0	.0	.0	1.1	.3	.0	1.8	.0	.8	.0	95.9
12015	.1	.0	.1	.0	.0	.0	.0	.3	.1	.0	1.9	.1	1.3	.1	96.0
18021	.0	.0	.2	.0	.0	.0	.0	.2	.2	.2	1.6	.0	.9	.0	96.9
TOT PCT	.2	.1	.4	.0	.0	.0	.0	.7	.2	.3	2.0	*	1.0	*	95.9
TOT OBS:	2400														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.3	.1	.0	.0	.0		.6	5.9	1.2	.6	.2	.0	.5	.5	.7	.0	
NE	.0	*	.0	.0	.0	.0		*	5.0	.1	.0	.0	.0	.0	.0	.0	.0	
E	.1	.6	.5	.1	.0	.0		1.3	10.7	1.2	.0	2.2	2.2	1.4	1.2	.7	.0	
SE	.3	12.1	30.5	4.6	.3	.0		47.8	14.6	46.6	42.8	47.9	72.2	50.8	39.9	45.8	52.9	
S	.7	17.1	21.0	3.2	.2	.0		42.2	12.8	42.5	45.0	40.5	24.4	41.2	47.2	45.1	40.0	
SW	.3	2.6	1.0	.1	.0	.0		4.0	8.7	4.2	7.2	4.1	1.3	2.5	7.8	3.3	5.0	
W	.1	.5	.1	.0	.0	.0		.7	6.1	.5	.6	.5	.0	.7	2.1	1.1	.0	
NW	.1	.5	*	.0	.0	.0		.6	5.5	.4	1.1	1.2	.0	.5	.5	.2	1.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.7							2.7	.0	3.3	2.8	3.3	.0	2.4	.9	3.1	1.1	
TOT OBS	155	1118	1765	263	15	0	3316		13.0	699	180	693	80	746	217	606	95	
TOT PCT	4.7	33.7	53.2	7.9	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	.4	.2	*	.0	.0	.0	.6	5.9	1.1	.2	.5	.6		
NE	*	.0	.0	.0	.0	.0	*	5.0	.1	.0	.0	.0		
E	.5	.6	.3	.0	.0	.0	1.3	10.7	.9	2.2	1.4	.6		
SE	3.0	27.8	15.9	1.2	.0	.0	47.8	14.6	45.8	50.5	48.3	46.8		
S	6.0	25.3	10.0	.9	.0	.0	42.2	12.8	43.0	38.9	42.5	44.4		
SW	1.6	2.0	.3	*	.0	.0	4.0	8.7	4.8	3.8	3.7	3.5		
W	.5	.3	.0	.0	.0	.0	.7	6.1	.5	.5	1.0	1.0		
NW	.4	.2	*	.0	.0	.0	.6	5.5	.6	1.0	.5	.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.7						2.7	.0	3.2	3.0	2.1	2.9		
TOT OBS	502	1866	880	68	0	3316		13.0	879	773	963	701		
TOT PCT	15.1	56.3	26.5	2.1	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1881-1976

APRIL

AREA 0016 SKELETON COAST
19.45 9.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	3.2	2.3	33.2	52.8	8.1	.5	.0	.0	12.9	100.0	879
06609	3.0	2.2	34.2	53.8	6.6	.3	.0	.0	12.6	100.0	773
12615	2.1	1.6	33.7	54.1	7.9	.0	.0	.0	13.2	100.0	963
18621	2.9	1.7	33.8	51.9	9.3	.4	.0	.0	13.1	100.0	701
TOT	.91	.64	11.8	17.65	2.63	.15	.0	.0	13.0		3316
PCT	2.7	1.9	33.7	53.2	7.9	.5	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.0	.1	.1	2.9	.0
NE	.0	.0	.0	.0	.0	.0
E	.1	.3	.7	.6	6.0	.0
SE	7.4	7.4	22.6	15.9	5.6	.1
S	10.4	5.9	11.3	11.2	4.8	.3
SW	.9	.3	.6	.9	4.7	.1
W	.3	.0	.1	.1	3.2	.0
NW	.1	.0	.1	.1	5.1	.0
VAR	.0	.0	.0	.0	.0	.0
CALM	1.1	.5	.4	.9	4.1	.4
TOT OBS	405	286	707	591	1989	5.2
TOT PCT	20.4	14.4	35.5	29.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.2	.3	.3	.2	.1	.0	.0	.5	
SE	.1	.5	5.2	16.2	9.8	3.3	.5	.1	.5	17.0		
S	.3	.1	.3	4.2	7.5	6.6	1.3	.4	.1	.2	17.9	
SW	.1	.0	.3	.6	.1	.2	.0	.0	.1	.3		
W	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
NW	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.1	.0	.3	.4	.1	.0	.0	.0	.1	1.7	
TOT OBS	20	3	17	198	495	342	101	18	6	15	774	1989
TOT PCT	1.0	.2	.9	10.0	24.9	17.2	5.1	.9	.3	.8	38.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>5000	1.5	2.0	2.1	2.1	2.1	2.1	2.1	2.1
>3500	5.7	7.1	7.3	7.3	7.3	7.3	7.3	7.3
>2000	18.6	23.3	24.1	24.2	24.2	24.2	24.2	24.2
>1000	39.9	47.9	49.0	49.1	49.1	49.1	49.1	49.1
>600	47.7	57.5	59.0	59.1	59.1	59.1	59.1	59.1
>300	48.4	58.3	59.8	60.0	60.0	60.0	60.0	60.0
>150	48.4	58.4	59.9	60.1	60.1	60.1	60.1	60.1
>0	48.5	58.6	60.2	60.3	60.3	60.5	61.1	61.1
TOTAL	964	1164	1196	1199	1199	1203	1215	1215

TOTAL NUMBER OF OBS: 1987

PCT FREQ NH <5/8: 38.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	11.7	5.9	5.8	8.3	6.5	7.5	9.9	16.9	26.5	1.0	2144

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1881-1976

APRIL

AREA 0016 SKELETON COAST
19.45 9.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.2	.1	*	.0	.0	.3	.7	.7
	TOT %	.0	.0	.0	.1	.2	.1	*	.0	.0	.3	.7	.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
1<2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	*
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
2<5	PCP	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	.3
	NO PCP	*	.0	*	.3	1.4	*	*	.1	.0	.2	2.1	2.1
	TOT %	*	.0	*	.4	1.5	*	*	.1	.0	.2	2.4	2.4
5<10	PCP	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.2	.2
	NO PCP	*	.0	.3	7.4	8.9	.7	.1	.2	.0	.7	18.4	18.4
	TOT %	*	.0	.3	7.5	9.0	.7	.1	.2	.0	.7	18.6	18.6
10+	PCP	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.2	.2
	NO PCP	.2	.0	1.3	44.5	28.5	1.8	.3	.1	.0	1.1	77.7	77.7
	TOT %	.2	.0	1.3	44.5	28.7	1.8	.3	.1	.0	1.1	77.9	77.9
TOT OBS													
TOT PCT													
		.3	.0	1.7	52.8	39.5	2.6	.5	.3	.0	2.4	100.0	2359

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	.3	.3	.3
	4-10	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	*
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	*
	TOT %	.0	.0	.0	.1	.2	*	*	.0	.0	.3	.6	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	*	.0	*	.0	*	.0	.0	.1	.1
	11-21	.0	.0	.0	.1	.1	*	*	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.1	*	*	.0	.0	.3	.3
2<5	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.2	.3	.3
	4-10	*	.0	*	.2	.7	*	.0	*	.0	.0	1.1	1.1
	11-21	.0	.0	*	.2	.9	*	.0	.0	.0	.0	1.1	1.1
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	.1
	TOT %	*	*	*	.5	1.6	.1	*	*	.0	.2	2.5	2.5
5<10	0-3	.0	.0	*	.1	.2	.1	*	*	.0	.9	1.3	1.3
	4-10	.0	.0	.2	1.6	4.6	.4	.1	.2	.0	.0	7.2	7.2
	11-21	*	.0	*	4.8	3.6	.2	.0	.0	.0	.0	8.7	8.7
	22+	.0	.0	.0	.6	.8	*	.0	.0	.0	.0	1.4	1.4
	TOT %	*	.0	.3	7.2	9.2	.7	.1	.2	.0	.9	18.6	18.6
10+	0-3	.1	.0	.1	.2	.3	.1	.1	*	.0	1.2	2.2	2.2
	4-10	*	.0	.5	10.9	11.1	1.4	.2	*	.0	.0	24.1	24.1
	11-21	*	.0	.6	29.3	15.1	.3	*	*	.0	.0	45.4	45.4
	22+	.0	.0	.1	3.9	2.0	*	.0	.0	.0	.0	6.0	6.0
	TOT %	.2	.0	1.2	44.4	28.6	1.8	.3	*	.0	1.2	77.6	77.6
TOT OBS													
TOT PCT													
		.2	*	1.5	52.4	39.7	2.8	.5	.3	.0	2.6	100.0	2629

APRIL

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1881-1976AREA 0016 SKELETON COAST
19.45 9.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.9	.4	.9	9.2	20.7	13.9	5.1	.6	.2	.6	53.6	46.4	468
06009	1.5	.0	.9	10.8	26.4	20.6	4.9	1.1	.9	.9	68.0	32.0	535
12015	.3	.2	.3	8.9	23.2	16.9	5.9	1.2	.0	1.2	58.2	41.8	574
18021	.9	.0	1.3	10.0	26.8	15.3	4.5	.6	.0	.2	59.6	40.4	470
TOT	23	3	17	199	497	344	105	19	6	16	1229	818	2047
PCT	1.1	.1	.8	9.7	24.3	16.8	5.1	.9	.3	.8	60.0	40.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	.3	.2	2.8	17.1	78.7	649
06009	.9	.1	.6	2.8	20.0	75.5	670
12015	.7	.1	.4	2.0	20.0	76.9	761
18021	.7	.2	.2	2.7	17.6	78.6	585
TOT	21	5	9	68	500	2062	2665
PCT	.8	.2	.3	2.6	18.8	77.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.8	3.2	14.9	41.5	43.6	443
06009	1.3	2.3	15.2	54.3	30.6	527
12015	.4	1.1	11.9	48.0	40.1	561
18021	.7	2.0	13.8	46.5	39.7	456
TOT	20	41	276	951	760	1987
PCT	1.0	2.1	13.9	47.9	38.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
80/84	.0	.0	.1	.1	.1	.1	.0	.0	6	.3
75/79	.0	.0	.0	.2	.9	2.6	.7	.2	87	4.6
70/74	.0	.0	.0	.8	7.1	18.7	11.7	3.9	806	42.3
65/69	.0	.0	.3	2.5	10.9	16.0	6.9	6.9	697	36.5
60/64	.0	.0	.0	.0	.2	1.2	6.0	7.9	293	15.4
55/59	.0	.0	.0	.0	.0	.0	.2	.7	17	.9
TOTAL	0	0	2	27	204	639	661	374	1907	100.0
PCT	.0	.0	.1	1.4	10.7	33.5	34.7	19.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
.1	.0	.3	2.8	1.3	.1	.0	.0	.0	.0
.0	.0	.7	30.0	10.4	.6	.1	.0	.0	.6
.2	.0	.4	19.5	14.9	1.0	.2	*	.0	.4
*	.0	.2	5.1	8.7	.8	.2	*	.0	.4
.0	.0	.0	.2	.6	.1	.0	.0	.0	.1
.2	.0	1.6	57.6	36.1	2.6	.5	.1	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	74	72	68	59	56	55	66.8	886
06009	84	76	73	68	60	55	53	66.9	778
12015	92	81	77	71	62	59	53	70.1	957
18021	78	74	73	68	60	55	52	67.5	707
TOT	92	78	75	68	60	57	52	67.9	3328

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.6	7.0	26.7	38.8	26.9	83	487
06009	.0	1.1	7.9	30.1	38.8	22.2	82	469
12015	.0	3.3	18.5	42.3	26.9	9.0	76	513
18021	.0	.9	8.8	34.4	34.8	21.1	81	454
TOT	0	29	206	644	667	377	80	1923

APRIL

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1881-1976AREA 0016 SKELETON COAST
19.45 9.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	*	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.1	3	.0	.1
14/16	.0	.0	.0	.0	*	.0	*	.2	.0	*	*	8	*	.3
11/13	.0	.0	.0	.0	.0	*	.4	.1	.0	.0	.0	11	.0	.5
9/10	.0	.0	.0	.0	.0	.1	.1	*	*	.0	.0	7	.0	.3
7/8	.0	.0	.0	.1	.1	.2	.3	.2	.0	.0	.0	19	.1	.7
6	.0	.0	.0	*	.1	.5	.1	.2	.0	.0	.0	20	*	.9
5	.0	.0	.0	.1	.5	.4	.3	.5	.0	.0	.0	39	*	1.7
4	.0	.0	.0	.9	.7	.6	.5	.3	.0	.0	.0	66	*	2.9
3	.0	.0	.0	.3	.9	.7	1.1	*	.0	.0	.0	65	.1	2.9
2	.0	.0	*	1.1	1.0	1.8	1.3	.1	.0	.0	.0	116	.2	5.0
1	.0	*	*	1.5	1.7	3.2	2.3	.0	.0	.0	.0	193	.1	8.6
0	.0	.0	.2	3.5	3.3	7.7	1.7	.0	.0	.0	.0	360	.4	16.0
-1	.0	.0	.5	2.5	3.8	9.8	.8	.0	.0	.0	.0	385	.2	17.3
-2	.0	.0	.7	2.4	3.4	7.0	.2	.1	.0	.0	.0	303	.2	13.5
-3	.0	.0	.5	1.6	2.6	4.2	.5	.0	.0	.0	.0	209	.1	9.4
-4	.0	.0	.5	2.4	2.1	2.1	.2	.0	.0	.0	.0	160	.1	7.1
-5	.0	*	.4	1.5	1.5	1.0	.2	.0	.0	.0	.0	103	*	4.6
-6	.0	.0	.3	.4	1.1	.6	.0	.0	.0	.0	.0	57	.0	2.6
-7/-8	.0	.3	.3	.6	.7	.4	*	.0	.0	.0	.0	52	.1	2.2
-9/-10	.0	.1	.2	.6	*	*	.0	.0	.0	.0	.0	23	.0	1.0
-11/-13	.0	.0	.0	*	*	*	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	12	81	418	530	894	222	39	3	2	3	2205	44	2161
PCT	*	.5	3.7	19.0	24.0	40.5	10.1	1.8	.1	.1	.1	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	*	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
7	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	*	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.5	.1	.0	.0	.0	.8
1-2	.1	.3	*	.0	.0	.0	.4	.0	6.6	3.0	.0	.0	.0	9.6
3-4	.1	.2	.4	.0	.0	.0	.6	.1	3.8	12.8	.6	.0	.0	17.3
5-6	.0	.0	.3	.1	.0	.0	.3	.0	.9	10.9	.9	.0	.0	12.8
7	.0	.0	*	.1	.0	.0	.2	.0	.1	3.4	1.0	.0	.0	4.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.7	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.3	*	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.8	.1	.0	.0	1.6	.2	12.1	32.3	3.9	.1	.0	48.6

PERIOD: (OVER-ALL) 1963-1976

APRIL

AREA 0016 SKELETON COAST
19.45 9.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.1	.0	.0	.0	.0		1.3	.2	.2	.0	.0	.0	.0		.3
1-2	.2	11.6	1.9	.0	.0	.0		13.7	.0	1.4	.1	.0	.0	.0		1.6
3-4	.0	4.9	9.3	.7	.0	.0		14.9	.0	.3	.3	.0	.0	.0		.6
5-6	.0	.8	4.9	.8	.0	.0		6.5	.0	.0	*	.0	.0	.0		*
7	.0	.3	2.8	.8	.0	.0		3.9	.0	*	*	.0	.0	.0		*
8-9	.0	*	.5	.5	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.2	.2	*	.0		.4	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.2	.2	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.3	.0	.0		.4	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	18.9	19.8	3.5	*	.0		42.6	.2	1.9	.5	.1	.0	.0		2.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.0	.0	.0	.0	.0		.1	.0	*	.0	.0	.0	.0		*	
1-2	.0	.2	.0	.0	.0	.0		.2	.0	.1	.0	.0	.0	.0		.1	
3-4	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	*	.0	.0	.0		*	
7	.0	.0	.0	.0	.0	.0		.0	.0	*	.0	.0	.0	.0		*	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	.3	.0	.0	.0	.0		.4	.0	.2	*	.0	.0	.0		.2	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	2.1	.1	.0	.0	.0	6.9	
1-2	.4	20.2	5.0	.0	.0	.0	25.6	
3-4	.1	9.2	22.8	1.3	.0	.0	33.4	
5-6	.0	1.8	16.1	1.7	.0	.0	19.5	
7	.0	.5	6.2	1.9	.0	.0	8.6	
8-9	.0	.2	1.4	1.2	.0	.0	2.8	
10-11	.0	.0	1.2	.5	.1	.0	1.8	
12	.0	.0	.3	.4	.0	.0	.7	
13-16	.0	.0	.1	.5	.1	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.3	34.0	53.2	7.5	.1	.0	100.0	1655

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	7.7	9.1	4.9	3.0	1.2	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	526	4
6-7	.0	.6	4.0	6.8	4.5	4.2	2.5	1.0	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	486	6
8-9	.0	.2	1.6	3.9	5.4	3.4	2.6	1.2	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	383	7
10-11	.0	.4	.3	1.1	1.6	.6	.9	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	112	8
12-13	.0	.0	.0	1.5	.9	.4	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	6
>13	.0	.0	.0	.7	.6	.6	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	43	8
INDET	3.1	3.1	3.7	2.0	2.5	1.1	.5	.1	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	321	4
TOTAL	68	232	403	395	361	274	146	60	48	12	5	1	0	0	0	0	0	0	0	1955	6
PCT	3.5	11.9	20.6	20.2	18.5	11.5	7.5	3.1	2.5	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1927-1976
(OVER-ALL) 1860-1976

MAY

AREA 0016 SKELETON COAST
19.45 9.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.6	.0	.0	.0	71.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.8	.0	.0	.0	84.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	3.3	.0	.0	94.1
SE	.3	.3	.1	.0	.0	.0	.0	.7	.4	.1	2.0	.2	.5	.1	95.9
S	.1	.1	.0	.0	.0	.0	.1	.2	.1	.3	4.8	.2	1.7	.0	92.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	.0	2.0	.0	88.5
W	.0	3.6	.0	.0	.0	.0	.0	3.6	.0	.0	7.1	.0	.0	.0	89.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37.5	.0	.0	.0	62.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	14.8	.0	1.9	.0	81.5
TOT PCT	.2	.2	.0	.0	.0	.0	.0	.5	.3	.2	4.4	.2	1.1	.0	93.3
TOT OBS:	2386														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.2	.9	.0	.0	.0	.0	.0	1.0	.2	.5	2.8	.5	.7	.0	94.3
06009	.3	.0	.0	.0	.0	.0	.0	.3	.3	.2	6.1	.0	1.0	.0	92.1
12015	.0	.0	.3	.0	.0	.0	.2	.5	.5	.0	4.9	.2	2.0	.2	91.9
18021	.2	.0	.0	.0	.0	.0	.0	.2	.2	.0	4.4	.0	.8	.0	94.4
TOT PCT	.2	.2	.1	.0	.0	.0	.0	.5	.3	.2	4.6	.2	1.1	.0	93.1
TOT OBS:	2462														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.7	.0	.0	.0	.0		.9	4.7	.7	1.7	1.6	.6	.5	.2	.9	.0	
NE	.1	.2	.1	.0	.0	.0		.4	5.0	.4	.4	.5	.0	.7	.0	.3	.0	
E	.2	1.0	.2	.0	.0	.0		1.5	8.0	1.4	.9	2.3	2.5	1.4	.8	1.1	.7	
SE	.5	12.2	24.2	4.2	.2	.0		41.4	14.2	43.9	31.8	43.6	54.7	41.5	29.7	41.0	46.8	
S	1.5	18.5	21.2	3.3	.1	.0		44.6	12.4	41.5	46.8	41.4	37.8	46.0	55.1	46.0	46.3	
SW	.7	4.1	1.3	.1	.0	.0		6.3	8.4	6.8	10.5	5.0	3.9	5.2	10.2	6.0	4.2	
W	.3	1.1	.1	.0	.0	.0		1.5	6.1	1.4	1.7	1.0	.0	1.5	2.5	1.6	1.5	
NW	.2	.8	.1	.0	.0	.0		1.0	6.5	1.0	1.9	1.0	.6	.7	1.0	1.4	.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5							2.5	.0	2.8	4.3	3.6	.0	2.3	.4	1.8	.0	
TOT OBS	219	1363	1677	273	12	0	3544		12.2	709	232	719	90	777	240	675	102	
TOT PCT	6.2	38.5	47.3	7.7	.3	.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	.8	.1	.0	.0	.0	.9	4.7	1.0	1.5	.5	.7
NE	.3	.1	.0	.0	.0	.4	5.0	.4	.5	.5	.3
E	.7	.6	.2	.0	.0	1.5	8.0	1.3	2.3	1.3	1.1
SE	3.8	22.9	13.6	1.0	.0	41.4	14.2	40.9	44.9	38.7	41.8
S	8.1	25.4	10.3	.9	.0	44.6	12.4	42.8	41.0	48.2	46.0
SW	2.6	3.1	.5	.0	.0	6.3	8.4	7.7	4.9	6.4	5.7
W	.9	.5	.0	.0	.0	1.5	6.1	1.5	.9	1.8	1.6
NW	.6	.5	.0	.0	.0	1.0	6.5	1.2	.9	.8	1.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5					2.5	.0	3.2	3.2	1.9	1.5
TOT OBS	723	1883	870	68	0	3544		941	809	1017	777
TOT PCT	20.4	53.1	24.5	1.9	.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1927-1976
(OVER-ALL) 1860-1976

MAY

AREA 0016 SKELETON COAST
19.4S 9.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.2	4.1	39.4	44.3	8.4	.5	.0	12.2	100.0	941
06009	3.2	3.2	38.9	46.1	8.3	.2	.0	12.1	100.0	809
12015	1.9	3.6	36.8	48.6	8.8	.4	.0	12.6	100.0	1017
18021	1.5	3.9	39.0	50.6	4.9	.1	.0	12.0	100.0	777
TOT	87	132	1363	1677	273	12	0	12.2		3544
PCT	2.5	3.7	38.5	47.3	7.7	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.1	.2	.2		3.4
NE	.2	*	.1	.1		4.4
E	.6	.2	.6	.3		4.3
SE	10.6	7.5	17.7	12.0		5.0
S	19.4	5.0	9.2	11.0		4.2
SW	2.1	.7	.7	.5		3.0
W	.6	.2	.3	*		3.0
NW	.4	.0	.2	.2		3.5
VAR	.0	.0	.0	.0		.0
CALM	1.4	.1	.4	.5		3.2
TOT OBS	663	291	613	521	2088	4.5
TOT PCT	31.8	13.9	29.4	25.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.2	.0	.0	*	*	.0	.0	.1	.0	.0	.6	
NE	*	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
E	.0	.0	*	.1	.3	.1	.2	*	.0	.0	.9	
SE	.6	.1	.6	4.4	13.5	5.4	2.3	.4	.2	.3	20.0	
S	.9	*	.2	3.8	8.2	3.4	1.3	.4	.2	.1	22.0	
SW	.0	.0	*	.1	.6	.2	*	*	.0	*	3.0	
W	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1.0	
NW	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.1	.3	.2	.0	.0	.0	.0	1.6	
TOT OBS	42	2	19	184	483	196	82	21	9	14	1036	2088
TOT PCT	2.0	.1	.9	8.8	23.1	9.4	3.9	1.0	.4	.7	49.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
>6500	.6	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>5000	1.5	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>3500	4.7	5.7	5.9	5.9	6.0	6.0	6.0	6.0	6.0
>2000	13.3	14.8	15.2	15.2	15.3	15.3	15.3	15.3	15.3
>1000	32.2	37.4	38.3	38.3	38.4	38.4	38.5	38.5	38.5
>600	38.4	45.6	46.6	46.7	46.8	46.9	47.0	47.0	47.0
>300	39.1	46.4	47.4	47.6	47.7	47.8	47.9	47.9	47.9
>150	39.2	46.4	47.5	47.7	47.8	47.9	48.0	48.0	48.0
>0	39.2	46.5	47.7	48.0	48.1	48.8	49.8	49.8	49.8
TOTAL	837	992	1018	1024	1027	1041	1062	1063	1063

TOTAL NUMBER OF OBS: 2133

PCT FREQ NH <5/8: 50.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.6	7.3	8.2	7.6	6.7	5.5	8.4	14.0	20.9	1.8	2245

PERIOD: (PRIMARY) 1927-1976
(OVER-ALL) 1860-1976

MAY

AREA 0016, SKELETON COAST
19.45 9.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.0	.0	.4	.7	.0	.0	.2	.0	.3	1.8	
	TOT %	.2	.0	.0	.4	.7	.0	.0	.2	.0	.3	1.8	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.2	.1	*	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.2	.1	*	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	*	.0	.3	.1	.0	.0	.0	.0	*	.5	
	TOT %	.0	*	.0	.3	.1	.0	.0	.0	.0	*	.5	
2<5	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.0	*	.3	1.4	.4	.1	*	.0	.1	2.4	
	TOT %	.1	.0	*	.3	1.4	.4	.1	*	.0	.1	2.5	
5<10	PCP	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.1	5.0	8.8	.6	.1	.3	.0	.3	15.3	
	TOT %	.1	.1	.1	5.1	8.8	.6	.1	.3	.0	.3	15.4	
10+	PCP	.0	.0	.0	.2	.0	.0	*	.0	.0	.0	.2	
	NO PCP	.4	.3	1.5	40.8	30.4	3.1	.9	.3	.0	1.5	79.3	
	TOT %	.4	.3	1.5	41.0	30.4	3.1	1.0	.3	.0	1.5	79.5	
TOT OBS													2376
TOT PCT													
		.8	.4	1.6	47.3	41.5	4.1	1.2	.8	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

SBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.2	.3		
	4-10	.2	.0	.0	.2	.5	.0	.0	.2	.0	.0	1.0		
	11-21	.0	.0	.0	.1	.2	.0	.0	.1	.0	.0	.4		
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*		
	TOT %	.2	.0	.0	.4	.7	.0	.0	.3	.0	.2	1.8		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1		
	11-21	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.2		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.2	.1	*	.0	.0	.0	.0	.3		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*		
	4-10	.0	*	.0	.1	.1	.0	.0	.0	.0	.0	.3		
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	*	.0	.2	.1	.0	.0	.0	.0	*	.4		
2<5	0-3	*	.0	.0	.0	.1	.1	*	.0	.0	.1	.4		
	4-10	*	.0	*	.2	.7	.2	*	.1	.0	.0	1.3		
	11-21	.0	.0	*	.1	.4	*	.0	.0	.0	.0	.6		
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1		
	TOT %	.1	.0	.1	.3	1.3	.4	.1	.1	.0	.1	2.4		
5<10	0-3	.0	*	.0	*	.2	.1	.0	.0	.0	.3	.7		
	4-10	.1	.1	*	1.5	4.0	.2	.1	.2	.0	.0	6.3		
	11-21	.0	.0	.1	2.9	3.8	.2	.0	.0	.0	.0	7.0		
	22+	.0	.0	.0	.6	.4	*	.0	.0	.0	.0	1.1		
	TOT %	.1	.1	.1	5.0	8.5	.6	.1	.2	.0	.3	15.1		
10+	0-3	.1	.1	.2	.4	1.0	.4	.2	.1	.0	1.5	3.9		
	4-10	.2	.1	1.1	11.5	12.9	2.6	.6	.2	.0	.0	29.2		
	11-21	*	.1	.2	24.3	16.0	.5	.1	.0	.0	.0	41.2		
	22+	.0	.0	*	3.9	1.7	*	.0	.0	.0	.0	5.7		
	TOT %	.4	.3	1.5	40.2	31.6	3.4	.9	.3	.0	1.5	80.0		
TOT OBS														2671
TOT PCT														
		.8	.4	1.6	46.3	42.4	4.4	1.0	.9	.0	2.1	100.0		

PERIOD: (PRIMARY) 1927-1976
(OVER-ALL) 1860-1976

MAY

AREA 0016 SKELETON COAST
19.45 9.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH <5/8 OBS	TOTAL OBS
00003	1.7	.0	.6	6.3	23.8	8.6	1.9	1.0	.6	.2	44.7	55.3	479
06009	3.0	.2	1.1	9.0	25.6	13.4	5.5	1.2	.7	.5	60.1	39.9	567
12015	1.7	.0	.7	9.9	20.1	8.4	4.4	.7	.3	.9	47.1	52.9	586
18021	1.5	.2	1.1	8.6	21.8	6.0	3.1	.9	.0	.9	44.1	55.9	547
TOT	43	2	19	186	496	199	83	21	9	14	1072	1107	2179
PCT	2.0	.1	.9	8.5	22.8	9.1	3.8	1.0	.4	.6	49.2	50.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.5	.2	.2	2.4	14.9	80.9	664
06009	2.6	.1	.4	2.6	15.4	78.7	681
12015	2.0	.4	.7	2.4	14.0	80.5	745
18021	1.5	.6	.6	2.6	16.0	78.7	658
TOT	53	9	13	69	413	2191	2748
PCT	1.9	.3	.5	2.5	15.0	79.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.7	2.4	10.1	36.2	53.7	467
06009	2.9	4.8	15.6	46.8	37.6	558
12015	1.6	3.0	15.2	34.0	50.8	573
18021	1.5	3.4	14.4	32.3	53.3	535
TOT	41	73	298	798	1037	2133
PCT	1.9	3.4	14.0	37.4	48.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
80/84	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
75/79	.0	.0	.1	.1	.4	.4	.2	.1	23	1.2
70/74	.0	.0	.2	.6	4.8	5.4	4.7	.9	309	16.6
65/69	.0	.0	.0	.6	8.9	19.6	21.1	6.2	1049	56.4
60/64	.0	.0	.0	.0	.3	2.8	9.7	6.9	366	19.7
55/59	.0	.0	.0	.0	.1	.2	.9	4.8	110	5.9
50/54	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	1	6	25	267	528	681	353	1861	100.0
PCT	.0	.1	.3	1.3	14.3	28.4	36.6	19.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.1	.1	.9	.2	*	.0	.0	.0	.0
.0	.0	.5	10.2	4.7	.8	.1	.1	.0	.3
.2	.1	.8	33.2	18.6	2.2	.7	.1	.0	.6
*	*	.2	6.2	11.0	1.3	.2	.2	.0	.5
*	.1	.0	2.2	3.3	.1	.1	.0	.0	.2
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
.2	.3	1.6	52.7	37.9	4.3	1.1	.3	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	72	70	65	58	55	52	64.6	952
06009	77	72	70	66	57	55	54	64.7	825
12015	89	77	74	68	60	57	54	67.6	1013
18021	77	73	71	66	59	56	55	65.5	793
TOT	89	75	72	66	58	55	52	65.7	3583

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	10.4	26.7	40.3	22.5	82	472
06009	.0	1.7	12.6	26.4	37.5	21.7	81	469
12015	.0	4.0	22.5	31.8	29.8	11.9	77	494
18021	.0	1.5	11.7	28.7	38.1	20.1	81	478
TOT	0	36	275	544	695	363	80	1913

MAY

PERIOD: (PRIMARY) 1927-1976
(OVER-ALL) 1860-1976

TABLE 17

AREA 0016 SKELETON COAST
19.45 9.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.0	2	.0	.1
17/19	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	3	.0	.1
14/16	.0	.0	.0	.0	*	.0	.1	*	.0	.0	.0	4	.0	.2
11/13	.0	.0	.0	.1	.0	.1	*	*	.0	.0	.0	7	*	.3
9/10	.0	.0	.0	.0	*	.3	.1	*	*	.0	.0	13	.1	.5
7/8	.0	.0	*	.3	.4	.2	.2	*	.0	.0	.0	25	.1	1.0
6	.0	.0	.0	*	.4	.2	*	.1	.0	.0	.0	16	.1	.6
5	.0	.0	*	.7	.7	.4	.4	.1	.0	.0	.0	52	.3	2.1
4	.0	.0	*	1.1	.7	.7	.3	.0	.0	.0	.0	62	.2	2.6
3	.0	.0	*	1.5	1.1	1.4	.5	.0	.0	.0	.0	98	.2	4.2
2	.0	.0	.3	2.5	1.7	1.1	.3	*	.0	.0	.0	132	.6	5.4
1	.0	.0	.5	2.5	2.7	3.1	.5	.0	.0	.0	.0	207	.3	9.1
0	.0	.0	1.5	4.0	4.9	4.5	.2	.1	.0	.0	.0	335	.6	14.6
-1	.0	.2	1.6	2.9	7.8	4.1	.2	.0	.0	.0	.0	370	.3	16.5
-2	.0	.0	1.6	2.2	8.3	3.1	.2	.0	.0	.0	.0	341	.5	15.0
-3	.0	.5	.8	1.9	4.9	1.5	*	.0	.0	.0	.0	213	.5	9.1
-4	.0	.2	.7	2.0	2.6	.8	.0	*	.0	.0	.0	141	.3	6.1
-5	.0	.2	.8	1.5	1.5	.5	.0	.0	.0	.0	.0	102	.2	4.4
-6	.0	.1	.5	.4	.8	.1	.0	.0	.0	.0	.0	41	.1	1.7
-7/-8	.0	.1	.4	.4	.6	.0	.0	.0	.0	.0	.0	32	.1	1.4
-9/-10	*	.0	.0	*	*	.0	.0	.0	.0	.0	.0	4	*	.1
-11/-13	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*	.0
TOTAL	1	31	200	530	865	489	70	12	1	1	1	2202	103	2099
PCT	*	1.4	9.1	24.1	39.3	22.2	3.2	.5	*	*	*	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.2	*	.0	.0	.0	.0	.2
1-2	.0	.3	.1	.0	.0	.0	.4	.1	.0	.1	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.2	.1	.0	.0	.0	.8	.2	.1	.1	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3	.2	2.0	.0	.0	.0	.0	2.2
1-2	.0	.7	.0	.0	.0	.0	.7	*	7.1	2.4	.0	.0	.0	9.5
3-4	.0	.1	*	.0	.0	.0	.2	*	4.4	10.4	.2	.0	.0	15.0
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.9	9.9	.4	.0	.0	11.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.2	2.9	1.9	.0	.0	5.0
8-9	.0	.0	.0	*	.0	.0	*	.0	.1	1.2	.9	.0	.0	2.1
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.7	.8	.0	.0	1.5
12	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	.3	*	.0	.0	1.5	.2	14.6	27.5	4.3	.0	.0	46.6

PERIOD: (OVER-ALL) 1963-1976

MAY

AREA 0016 SKELETON COAST
19.45 9.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	2.7	.0	.0	.0	.0		3.5	.3	.5	.1	.0	.0	.0		.9
1-2	.6	10.0	2.6	.0	.0	.0		13.2	.1	2.1	.1	.0	.0	.0		2.3
3-4	*	4.2	8.9	.4	.0	.0		13.6	.1	.3	.4	.0	.0	.0		.8
5-6	.0	.7	6.3	.3	.0	.0		7.3	.1	.1	.1	.0	.0	.0		.3
7	.0	.1	2.5	.7	.0	.0		3.3	.0	.0	.0	*	.0	.0		*
8-9	.0	.0	.3	.2	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.4	.1	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.1	.1	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.4	17.7	21.2	1.8	.0	.0		42.1	.5	3.1	.7	*	.0	.0		4.3

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	.0	.0	.0	.0		.4	.1	.2	.0	.0	.0	.0		.2
1-2	.0	.5	.1	.0	.0	.0		.6	.1	.3	.0	.0	.0	.0		.4
3-4	.0	*	.0	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	.8	.1	.0	.0	.0		1.1	.1	.5	.0	.0	.0	.0		97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	5.9	.1	.0	.0	.0	11.1	
1-2	1.2	20.9	5.3	.0	.0	.0	27.4	
3-4	.2	9.1	19.5	.5	.0	.0	29.3	
5-6	.1	1.6	16.3	.7	.0	.0	18.7	
7	.0	.3	5.4	2.6	.0	.0	8.3	
8-9	.0	.1	1.5	1.1	.0	.0	2.7	
10-11	.0	.0	1.1	.9	.0	.0	2.0	
12	.0	.1	.2	.2	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	38.0	49.3	6.1	.0	.0	100.0	1638

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.3	5.2	7.3	5.9	2.3	.9	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	471	4
6-7	.0	1.1	4.3	6.9	7.3	3.8	1.7	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	517	6
8-9	.0	.1	2.3	4.5	4.9	5.2	2.1	.9	1.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	420	7
10-11	.0	.4	1.8	2.0	1.5	2.5	.7	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	7
12-13	.0	.0	.6	.5	.8	.6	.5	.0	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	66	8
>13	.0	.0	.0	.4	.6	.3	.4	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	41	9
INDET	2.5	2.1	2.2	3.0	2.0	.8	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	265	4
TOTAL	75	174	365	459	381	279	126	46	52	7	5	2	0	0	0	0	0	0	0	0	1971	6
PCT	3.8	8.8	18.5	23.3	19.3	14.2	6.4	2.3	2.6	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1857-1975

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.4	4.8	.0	.0 73.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.5	1.6	.0	.0 83.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	.0	10.8	.0 81.1
SE	.1	.4	.3	.0	.0	.0	.0	.8	.4	.2	1.1	.0	.8	* 96.7
S	.1	.1	.1	.0	.0	.0	.0	.3	.3	.2	3.1	.1	1.5	.1 94.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0 98.5
W	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0 98.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.3	.7	2.7	.0 79.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	.0	1.0	.0	.0	.0	.0	1.0	1.0	.0	8.9	.0	3.0	.0 86.1
TOT PCT	.1	.2	.2	.0	.0	.0	.0	.5	.4	.2	2.9	.1	1.4	* 94.5
TOT OBS:	2334													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	.2	.2	.0	.0	.0	.0	.0	.3	.2	.7	2.0	.0	1.7	.0 95.2
06009	.2	.2	.5	.0	.0	.0	.0	.9	.7	.0	3.6	.3	.9	.0 93.7
12015	.0	.2	.2	.0	.0	.0	.0	.3	.2	.0	4.1	.0	1.8	.2 93.5
18021	.0	.4	.2	.0	.0	.0	.0	.5	.7	.0	2.5	.2	1.2	.0 94.9
TOT PCT	.1	.2	.2	.0	.0	.0	.0	.5	.4	.2	3.1	.1	1.4	* 94.3
TOT OBS:	2416													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47							00	03	06	09	12	15	18	21
N	.7	1.0	.1	.0	.0	.0	.0	.0	1.8	5.2	1.4	2.9	2.4	.0	2.0	2.8	1.4	.0	
NE	.1	.5	.1	.0	.0	.0	.0	.0	.7	7.1	.5	.7	1.4	.0	.7	.5	.5	.0	
E	.4	1.0	.5	.0	.0	.0	.0	.0	1.9	8.1	1.9	1.4	3.2	.0	2.3	.9	1.2	.6	
SE	1.3	13.7	20.8	4.4	.3	.0	.0	.0	40.6	13.7	40.0	35.6	39.8	54.5	43.8	32.5	39.0	51.2	
S	2.0	18.5	16.2	3.9	.3	.0	.0	.0	40.9	12.2	42.6	40.2	40.5	34.3	38.0	41.9	45.0	32.8	
SW	.9	4.1	1.0	.0	.0	.0	.0	.0	6.1	7.5	5.2	11.3	4.8	4.0	6.3	11.9	4.7	6.1	
W	.3	1.5	.1	.0	.0	.0	.0	.0	2.0	5.6	2.3	2.4	1.7	4.0	1.3	2.4	1.8	5.2	
NW	.5	1.2	.1	.0	.0	.0	.0	.0	1.9	5.7	1.7	1.7	1.7	1.1	1.7	4.2	2.2	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.1							.0	4.1	.0	4.5	3.8	4.7	2.1	3.9	2.8	4.3	3.5	
TOT OBS	347	1374	1284	276	20	0	3301	.0		11.5									
TOT PCT	10.5	41.6	38.9	8.4	.6	.0		.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.3	.6	.0	.0	.0	.0	1.8	5.2	1.8	2.1	2.2	1.2
NE	.4	.3	.0	.0	.0	.0	.7	7.1	.6	1.2	.7	.5
E	1.0	.7	.2	.0	.0	.0	1.9	8.1	1.8	2.8	2.0	1.1
SE	5.8	21.2	12.1	1.4	.1	.0	40.6	13.7	39.0	41.7	41.3	40.4
S	8.9	22.4	8.3	1.3	.1	.0	40.9	12.2	42.1	39.7	38.8	43.5
SW	3.2	2.6	.3	.0	.0	.0	6.1	7.5	6.6	4.7	7.6	4.8
W	1.4	.5	.0	.0	.0	.0	2.0	5.6	2.3	2.0	1.5	2.2
NW	1.4	.4	.1	.0	.0	.0	1.9	5.7	1.7	1.6	2.2	2.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1				.0	.0	4.1	.0	4.3	4.3	3.7	4.2
TOT OBS	909	1604	695	88	5	3301		11.5	906	736	950	709
TOT PCT	27.5	48.6	21.1	2.7	.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
HOUR CALM									
00003	4.3	7.0	42.3	38.2	7.6	.7	.0	11.2	100.0
06009	4.3	6.5	41.0	38.9	8.8	.4	.0	11.5	100.0
12015	3.7	6.0	42.8	37.6	9.5	.4	.0	11.6	100.0
18021	4.2	6.1	39.8	41.6	7.3	1.0	.0	11.7	100.0
TOT	136	211	1374	1284	276	20	0	11.5	3301
PCT	4.1	6.4	41.6	38.9	8.4	.6	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.1	.2	.5		4.3
NE	.4	.0	.2	.1		3.5
E	1.1	.2	.5	.3		3.3
SE	10.3	5.4	18.0	11.7		5.1
S	14.9	3.9	9.8	10.3		4.2
SW	1.8	.7	.7	.7		3.2
W	.9	.4	.1	.2		2.5
NW	.8	.1	.3	.4		3.2
VAR	.0	.0	.0	.0		.0
CALM	2.1	.3	.2	2.2		4.2
TOT OBS	654	219	598	528	1999	4.5
TOT PCT	32.7	11.0	29.9	26.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.6	
NE	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	
E	.1	.0	.0	.1	.4	.2	.0	.0	.0	.0	1.4	
SE	.2	.1	.2	4.2	13.1	6.9	1.8	.5	.0	.1	18.2	
S	.5	.6	2.8	7.7	5.4	1.3	.2	.1	.3	.3	20.2	
SW	.0	.0	.2	.5	.4	.1	.0	.0	.0	.0	2.7	
W	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.3	
NW	.2	.0	.1	.2	.1	.0	.0	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.8	.5	.5	.1	.0	.0	.1	2.4	
TOT OBS	31	2	16	169	454	273	62	16	2	10	964	1999
TOT PCT	1.6	.1	.8	8.5	22.7	13.7	3.1	.8	.1	.5	48.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >2000	16.0	18.0	18.3	18.4	18.4	18.4	18.4	18.4
= OR >1000	36.7	40.4	40.8	40.9	40.9	40.9	40.9	40.9
= OR >600	42.5	48.3	49.1	49.3	49.3	49.4	49.4	49.4
= OR >300	43.0	48.9	49.8	50.0	50.0	50.2	50.2	50.2
= OR >150	43.1	49.0	49.9	50.1	50.1	50.3	50.3	50.3
= OR >0	43.2	49.2	50.2	50.5	50.6	51.4	51.9	52.0
TOTAL	886	1009	1031	1036	1038	1054	1064	1067

TOTAL NUMBER OF OBS: 2052

PCT FREQ NH <5/8: 48.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
22.6	6.8	6.6	6.1	5.4	5.7	8.8	13.6	23.0	1.4	2158

PERIOD: (PRIMARY) 1926-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.1	*	.1	.5	*	.0	.2	.0	.3	1.5	
	TOT %	.2	.1	*	.1	.5	*	.0	.2	.0	.3	1.5	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.2	*	.0	.0	.0	*	.3	
	TOT %	.0	.0	.0	.1	.2	*	.0	.0	.0	*	.3	
1<2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	*	.2	.3	.0	*	.0	.0	.0	.6	
	TOT %	.0	.0	*	.3	.3	.0	*	.0	.0	.0	.6	
2<5	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.4	.5	.0	*	.2	.0	.2	1.2	
	TOT %	.0	.0	.0	.4	.5	.0	*	.2	.0	.2	1.3	
5<10	PCP	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.3	.1	.4	6.1	5.5	.5	.2	.4	.0	.9	14.3	
	TOT %	.3	.1	.4	6.2	5.6	.5	.2	.4	.0	.9	14.4	
10+	PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	*	.3	
	NO PCP	.8	.5	1.5	38.7	31.8	3.1	1.5	.8	.0	2.9	81.6	
	TOT %	.8	.5	1.5	38.9	31.8	3.1	1.5	.8	.0	2.9	81.9	
TOT OBS													2332
TOT PCT		1.4	.7	2.0	45.9	38.8	3.6	1.8	1.6	.0	4.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.1	.1	*	.0	.1	.0	.3	.6	
	4-10	.2	.1	*	.1	.4	.0	.0	.1	.0		.9	
	11-21	.0	.0	.0	.0	.0	.0	*	.0	*		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	*	.2	.5	*	.0	.2	.0	.3	1.5	
1/2<1	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	*	.1	*	.0	.0	.0		.2	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.2	*	.0	.0	.0	*	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.1	.2	.0	*	.0	.0		.4	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.2	.3	.0	*	.0	.0	.0	.6	
2<5	0-3	.0	.0	*	*	.0	.0	*	.0	.0	.2	.3	
	4-10	.0	.0	.0	.1	.4	.0	*	.1	.0		.7	
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	*	.4	.6	.0	*	.2	.0	.2	1.4	
5<10	0-3	.1	*	.1	.3	.5	*	*	.2	.0	.9	2.1	
	4-10	.2	*	.2	2.0	2.4	.3	.2	.2	.0		5.6	
	11-21	*	*	*	2.7	2.5	.1	.0	.0	.0		5.4	
	22+	.0	.0	.1	1.0	.7	.0	.0	.0	.0		1.9	
	TOT %	.3	.1	.3	6.1	6.1	.5	.2	.4	.0	.9	14.9	
10+	0-3	.4	.1	.3	.8	1.3	.7	.3	.1	.0	2.8	6.7	
	4-10	.3	.6	.6	12.4	14.6	2.4	1.0	.7	.0		32.4	
	11-21	.1	.1	.6	20.9	13.2	.4	.1	*	.0		35.4	
	22+	.0	.0	.0	4.0	2.8	.0	.0	.0	.0		6.7	
	TOT %	.9	.4	1.5	38.1	31.9	3.5	1.4	.8	.0	2.8	81.3	
TOT OBS													2534
TOT PCT		1.4	.6	1.9	45.0	39.6	4.0	1.6	1.6	.0	4.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.0	.2	.4	6.6	22.3	13.5	1.6	.0	.0	1.0	47.7	52.3	488
06009	2.5	.4	1.3	11.5	25.0	15.5	4.4	.8	.2	.2	61.8	38.2	521
12015	.9	.0	.7	6.9	20.1	12.2	2.9	1.0	.2	.3	45.2	54.8	582
18021	1.2	.0	.6	8.6	21.1	13.1	3.2	1.4	.0	.4	49.6	50.4	502
TOT PCT	34 1.6	3 .1	16 .8	175 8.4	462 22.1	284 13.6	64 3.1	17 .8	2 .1	10 .5	1067 51.0	1026 49.0	2093 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.5	.4	.7	1.6	16.0	79.6	667
06009	2.4	.2	.5	1.3	15.0	80.7	627
12015	1.1	.7	.7	.8	14.5	82.2	724
18021	1.2	.0	.3	2.5	15.2	80.7	597
TOT PCT	40 1.5	9 .3	15 .6	40 1.5	397 15.2	2114 80.8	2615 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.3	3.6	10.7	38.8	50.5	477
06009	2.5	4.5	16.9	46.3	36.8	514
12015	.9	1.9	9.0	37.0	54.0	576
18021	1.2	1.9	12.2	39.6	48.2	485
TOT PCT	35 1.7	60 2.9	249 12.1	828 40.4	975 47.5	2052 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
75/79	.0	.0	.1	.1	.1	.1	.0	.0	6	.3
70/74	.0	.0	.1	.4	1.5	1.6	.7	.3	84	4.6
65/69	.0	.0	.1	2.1	10.7	18.4	11.1	3.8	846	46.1
60/64	.0	.0	.0	.4	2.3	11.4	13.2	5.2	595	32.4
55/59	.0	.0	.0	.0	.1	1.4	8.0	6.6	294	16.0
50/54	.0	.0	.0	.0	.0	.0	.1	.4	8	.4
TOTAL	0	0	5	54	268	603	606	298	1834	100.0
PCT	.0	.0	.3	2.9	14.6	32.9	33.0	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
75/79	.0	.1	.0	.1	.1	.0	.0	.1	.0	.0
70/74	.0	.1	.1	3.0	1.1	.2	*	.0	.0	.1
65/69	.2	.1	.7	26.4	14.3	2.2	1.0	.7	.0	.4
60/64	.3	.1	.5	14.4	14.1	.8	.4	.3	.0	1.4
55/59	.6	.3	.3	5.4	7.1	.3	.1	.2	.0	1.7
50/54	.1	.1	.0	.1	.1	.0	.0	.0	.0	.1
TOTAL	1.1	.6	1.6	49.6	36.8	3.6	1.6	1.3	.0	3.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	70	68	63	55	54	52	62.3	928
06009	83	71	68	63	56	54	52	62.6	747
12015	86	77	72	66	58	55	48	65.4	961
18021	84	70	68	64	57	55	50	63.1	722
TOT	90	73	70	64	56	54	48	63.4	3358

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.8	13.1	28.5	36.0	19.7	80	467
06009	.0	3.5	13.0	32.5	33.2	17.8	80	455
12015	.0	4.3	20.0	34.9	31.2	9.6	77	510
18021	.0	2.5	12.4	33.7	32.4	19.1	80	445
TOT	0	62	277	609	622	307	79	1877

JUNE

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1857-1975

TABLE 17

AREA 0016, SKELETON COAST
19.45 9.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	*	*	.0	.0	4	*	.1
11/13	.0	.0	.0	.0	*	.1	*	*	*	.1	*	8	.1	.2
9/10	.0	.0	.0	.0	.2	.2	.1	.1	*	.0	.0	16	.2	.5
7/8	.0	.0	.0	*	.4	.2	.1	*	.0	*	.0	18	.0	.8
6	.0	.0	.0	*	.3	.2	.1	.0	.0	.0	.0	14	*	.6
5	.0	.0	.1	.5	.5	.5	.2	.0	.0	.0	.0	40	*	1.8
4	.0	.0	*	.9	.8	.4	*	.0	.0	.0	.0	48	.0	2.2
3	.0	.0	.2	.9	.9	.5	.2	.0	.0	*	.0	59	.0	2.7
2	.0	*	.7	2.3	1.6	.9	*	.0	.0	.0	.0	121	.4	5.2
1	.0	.1	1.4	3.3	3.2	.9	*	.0	.0	.0	.0	195	.2	8.8
0	.0	.1	3.2	4.6	7.3	.8	*	.0	.0	.0	.0	351	.4	15.7
-1	.0	.3	4.7	4.3	9.1	.7	.0	.0	.0	.0	.0	416	.3	18.6
-2	.0	.4	3.5	4.7	7.2	.3	.0	.0	.0	.0	.0	352	.5	15.7
-3	.0	1.0	2.3	3.2	3.4	.1	*	.0	.0	.0	.0	219	.4	9.6
-4	.0	.8	1.6	2.3	1.3	.1	.1	.0	.0	.0	.0	136	.3	6.0
-5	.0	1.1	1.8	1.0	1.4	*	.0	.0	.0	.0	.0	116	.4	4.9
-6	.0	.2	.4	.5	.2	.0	.0	.0	.0	.0	.0	28	.0	1.3
-7/-8	.0	.1	.2	.4	.5	.0	.0	.0	.0	.0	.0	27	.0	1.2
-9/-10	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	10	.0	.5
-11/-13	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	91	446	634	839	131	26	4	3	4	1	2181	71	2110
PCT	.1	4.2	20.4	29.1	38.5	6.0	1.2	.2	.1	.2	*	100.0	3.3	96.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	.1	.1	.0	.0	.0	.7		.1	.1	.0	.0	.0	.0	.0	.2
1-2	.1	.5	.0	.0	.0	.0	.5		.1	.3	.0	.0	.0	.0	.0	.3
3-4	.0	.1	.1	.0	.0	.0	.1		.0	.1	.1	.0	.0	.0	.0	.2
5-6	.0	.1	.0	.0	.0	.0	.1		.0	.1	.1	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.7	.1	.0	.0	.0	1.4		.1	.7	.2	.0	.0	.0	.0	1.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.1	.1	.0	.0	.0	.4		.4	1.4	.1	.0	.0	.0	.0	1.9
1-2	.1	.4	.0	.0	.0	.0	.4		.7	8.7	2.8	.0	.0	.0	.0	12.2
3-4	.0	.3	.2	.1	.0	.0	.5		.1	3.7	6.7	.1	.0	.0	.0	10.7
5-6	.0	.0	.3	.0	.0	.0	.3		.0	1.4	8.3	1.2	.0	.0	.0	10.9
7	.0	.0	.0	.0	.0	.0	.0		.0	.1	3.6	.9	.1	.0	.0	4.7
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	1.5	1.4	*	.0	.0	2.9
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.4	.1	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.1	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.2	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.5	.1	.0	.0	1.6		1.2	15.3	23.3	4.5	.4	.0	.0	44.9

PERIOD: (OVER-ALL) 1963-1975

JUNE

AREA 0016 SKELETON COAST
19.45 9.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.7	.1	.0	.0	.0	3.3	.5	.5	.0	.0	.0	.0	1.0
1-2	.3	9.9	2.1	.0	.0	.0	12.2	.2	1.3	.1	.0	.0	.0	1.6
3-4	.0	3.9	2.7	.3	.0	.0	10.9	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.8	4.4	1.1	.0	.0	6.3	.0	.1	.1	.0	.0	.0	.2
7	.0	.0	1.7	.9	.1	.0	2.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	1.5	.5	.1	.0	2.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.7	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	17.3	16.8	3.6	.2	.0	38.7	.8	2.0	.3	.0	.0	.0	3.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.4	.0	.0	.0	.0	.7	.2	.4	.0	.0	.0	.0	.7	
1-2	.0	1.0	.1	.0	.0	.0	1.0	.0	.4	.1	.0	.0	.0	.5	
3-4	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.4	.1	.0	.0	.0	1.9	.2	.8	.1	.0	.0	.0	1.1	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.9	5.9	.3	.0	.0	.0	16.1	
1-2	1.4	22.3	5.0	.0	.0	.0	28.7	
3-4	.1	8.1	13.7	.5	.0	.0	22.5	
5-6	.0	2.3	13.0	2.3	.0	.0	17.7	
7	.0	.1	5.3	1.8	.1	.0	7.3	
8-9	.0	.1	2.9	1.9	.1	.0	5.0	
10-11	.0	.0	.5	1.1	.1	.0	1.7	
12	.0	.0	.1	.3	.1	.0	.5	
13-16	.0	.0	.0	.3	.2	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.5	38.9	40.9	8.1	.6	.0	100.0	1473

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	4.4	5.4	4.7	2.2	1.5	.6	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	359	4
6-7	.0	1.4	5.2	7.5	5.5	3.8	2.7	1.1	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	506	6
8-9	.0	.4	2.0	4.0	5.7	3.6	3.5	1.2	.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	393	8
10-11	.0	.3	1.2	1.9	1.4	1.4	1.4	.5	1.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	173	8
12-13	.0	.0	1.2	.9	.8	.7	.6	.2	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	86	7
>13	.0	.0	.0	.1	.7	.3	.2	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	32	9
INDET	3.2	2.6	1.8	2.6	1.7	.6	.8	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	250	4
TOTAL	73	165	303	392	322	214	176	66	61	16	8	1	2	0	0	0	0	0	0	1799	6
PCT	4.1	9.2	16.8	21.8	17.9	11.9	9.8	3.7	3.4	.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1975
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	25.2	.0	2.7	.0	69.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28.3	.0	6.5	.0	65.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	10.1	.0	86.8
SE	.0	.2	.9	.0	.0	.0	.0	1.0	1.3	.2	1.1	.0	1.9	.0	94.4
S	.0	.1	.7	.0	.0	.0	.0	.8	.2	.7	1.9	.2	3.5	.0	92.7
SW	.0	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	2.1	.0	1.8	.0	95.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	97.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.8	6.4	4.3	.0	76.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	4.5	.0	6.1	.0	87.9
TOT PCT	.0														
TOT OBS: 2505	.1	.8	.0	.0	.0	.0	.0	.9	.7	.4	2.3	.2	2.8	.0	92.7

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.0	.2	.9	.0	.0	.0	.0	1.1	.3	1.9	2.9	.0	.9	.0	92.9
06009	.0	.3	1.1	.0	.0	.0	.0	1.4	.6	.0	3.0	.0	2.8	.0	92.1
12015	.0	.0	.6	.0	.0	.0	.0	.6	.9	.0	2.8	.3	4.5	.0	90.9
18021	.0	.0	.3	.0	.0	.0	.0	.3	1.0	.2	2.3	.5	3.1	.0	92.7
TOT PCT	.0														
TOT OBS: 2569	.1	.7	.0	.0	.0	.0	.0	.9	.7	.5	2.8	.2	2.8	.0	92.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.3	1.3	.1	.0	.0	.0	1.7	6.1	2.0	2.3	2.5	.8	1.3	1.8	1.4	.0		
NE	.1	.5	.0	.0	.0	.0	.5	5.6	1.4	.6	.8	.3	.4	.4	.6	.0		
E	.3	.8	.3	.1	.0	.0	1.4	8.0	1.4	1.8	1.9	1.1	2.1	.2	.8	.6		
SE	1.3	13.2	23.3	7.4	.4	.0	45.7	14.8	47.2	42.5	48.5	60.0	46.0	38.4	40.8	61.9		
S	1.5	14.8	18.6	3.8	.3	.0	39.0	12.9	36.8	37.8	36.3	32.1	40.8	41.6	43.5	29.7		
SW	.8	3.6	1.4	*	.0	.0	5.9	8.2	5.1	8.2	4.2	5.8	4.1	13.3	7.4	2.8		
W	.1	1.0	.1	.0	.0	.0	1.2	6.1	1.4	2.5	.5	.0	.6	2.7	1.5	1.4		
NW	.4	1.3	.1	.0	.0	.0	1.8	5.7	2.7	.8	1.4	.0	1.7	1.6	2.0	1.4		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.7						2.7	.0	3.0	3.4	3.8	.0	2.9	.0	2.1	2.2		
TOT DBS	273	1321	1593	410	24	0	3621		12.7	756	237	709	95	761	257	716	90	
TOT PCT	7.5	36.5	44.0	11.3	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	18
N	1.1	.6	*	.0	.0		1.7	6.1	2.0	2.3	1.4	1.2
NE	.4	.1	.0	.0	.0		.5	5.6	.5	.8	.4	.5
E	.8	.5	.1	.0	.0		1.4	8.0	1.5	1.8	1.6	.8
SE	5.7	21.7	15.6	2.7	.0		45.7	14.8	46.0	49.9	44.1	43.1
S	7.2	20.1	10.6	1.0	.0		39.0	12.9	37.0	35.8	41.0	41.9
SW	2.7	2.8	.4	*	.0		5.9	8.2	5.8	4.4	6.5	6.9
W	.9	.3	*	.0	.0		1.2	6.1	1.7	.5	1.2	1.5
NW	1.2	.6	*	.0	.0		1.8	5.7	2.3	1.3	1.7	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	3.1	3.4	2.2	2.1
TOT DBS	821	1695	971	134	0	3A21		12.7	993	804	1018	806
TOT PCT	22.7	46.8	26.8	3.7	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	3.1	0.1	37.2	42.1	11.0		.5	.0	12.3	100.0	993
06009	3.4	5.0	37.2	44.3	9.7		.5	.0	12.4	100.0	804
12015	2.2	3.9	36.2	43.7	13.2		.8	.0	13.1	100.0	1018
18021	2.1	4.3	35.2	40.4	11.0		.9	.0	12.9	100.0	806
TOT	97	176	1321	1593	410		24	0	12.7		3621
PCT	2.7	4.9	36.5	44.0	11.3		.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	.1	1.1		6.6
NE	*	*	.0	.3		6.6
E	.4	*	.4	.5		5.4
SE	9.0	5.3	16.8	19.4		5.6
S	11.4	4.0	7.8	13.7		4.8
SW	1.3	.4	.8	1.6		4.7
W	.3	.1	.1	.5		5.1
NW	.6	.1	.1	1.0		5.3
VAR	.0	.0	.0	.0		5.0
CALM	.9	.1	*	1.5		5.0
TOT OBS	517	218	559	847	2141	5.3
TOT PCT	24.1	10.2	26.1	39.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.0	.0	.4	.2	.3	*	.0	.0	*	.3	
NE	.1	.0	.0	.1	.1	.0	.0	.0	.0	*	.1	
E	.0	.0	.0	.3	.3	.2	.1	.0	.0	*	.5	
SE	.1	.0	.4	6.0	15.2	9.1	2.5	.4	.1	.2	16.4	
S	.2	.1	.7	4.4	8.8	4.6	1.1	.1	*	.5	16.2	
SW	.0	.0	.1	.3	.9	.5	.2	.0	*	.1	1.8	
W	.0	.0	.0	.2	.1	.1	.1	.0	.0	.0	.5	
NW	.2	.0	.0	.3	.4	.1	*	.0	.0	.0	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.2	.4	.3	.1	.0	.0	.0	.0	1.1	
TOT OBS	22	3	30	267	564	327	88	12	4	20	804	2141
TOT PCT	1.0	.1	1.4	12.5	26.3	15.3	4.1	.6	.2	.9	37.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50 YD	= OR >0
= OR >6500	.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	4.6	5.6	5.6	5.6	5.7	5.7	5.7	5.7
= OR >2000	17.1	20.4	20.8	20.8	20.8	20.8	20.8	20.8
= OR >1000	39.7	46.6	47.4	47.4	47.4	47.4	47.4	47.4
= OR >600	48.9	58.5	59.6	59.6	59.7	59.7	59.7	59.7
= OR >300	49.5	59.8	61.0	61.0	61.0	61.0	61.0	61.0
= OR >150	49.6	59.9	61.1	61.1	61.2	61.2	61.2	61.2
= OR >0	49.6	60.0	61.3	61.4	61.6	61.9	62.3	62.4
TOTAL	1080	1306	1334	1337	1340	1347	1357	1358

TOTAL NUMBER OF OBS: 2177

PCT FREQ NH <5/8: 37.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBS CD	TOTAL OBS
	16.3	4.9	5.6	5.1	5.5	4.4	8.3	13.1	35.7	2271

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	.7
	TOT %	.2	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	*	.1	.0	*	*	.0	.0	.0	.2
	TOT %	.0	.0	.0	*	.1	.0	*	*	.0	.0	.0	.2
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	*	*	*	.6	.7	*	.0	*	.0	.0	.0	1.4
	TOT %	*	*	*	.6	.7	*	.0	*	.0	.0	.0	1.4
2<5	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.1	.0	.1	.4	.5	.0	.0	.1	.0	.2	.1	1.4
	TOT %	.1	.0	.1	.4	.6	.0	.0	.1	.0	.2	.1	1.6
5<10	PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.1	.1	.1	6.7	9.2	1.2	.2	.8	.0	.8	19.1	
	TOT %	.1	.1	.1	6.8	9.4	1.2	.2	.8	.0	.8	19.5	
10+	PCP	.0	.0	.0	.3	.1	*	.0	.0	.0	.0	.0	.4
	NO PCP	1.0	.2	1.1	41.6	26.8	2.5	.6	.8	.0	1.6	76.2	
	TOT %	1.0	.2	1.1	41.9	26.9	2.5	.6	.8	.0	1.6	76.6	
TOT OBS													2501
TOT PCT		1.5	.5	1.3	49.9	37.8	3.7	.9	1.9	.0	2.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
	4-10	.2	.1	.0	.1	.1	.0	*	.1	.0	*	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.0	.1	.1	.0	*	.1	.0	*	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.1	.0	*	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.1	.0	*	*	.0	.0	.1	
1<2	0-3	*	*	*	.1	.1	.0	.0	.0	.0	.0	.2	
	4-10	*	*	*	.2	.2	*	*	*	.0	.0	.6	
	11-21	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.1	.1	.5	.7	*	*	*	.0	.0	1.5	
2<5	0-3	.0	.0	.0	.1	.1	*	*	.0	.0	.2	.5	
	4-10	.1	.0	*	.2	.5	*	.0	.1	.0	.0	.8	
	11-21	*	.0	.0	.2	.2	.0	.0	*	.0	.0	.5	
	22+	.0	.0	*	*	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.1	.6	.8	*	*	.1	.0	.2	1.9	
5<10	0-3	.1	.0	.1	.2	.7	.3	*	*	.0	.7	2.2	
	4-10	.1	.1	.1	2.2	3.8	.7	.2	.6	.0	.0	7.7	
	11-21	.0	.0	.0	3.0	4.0	.2	.0	.1	.0	.0	7.3	
	22+	.0	.0	.0	1.1	.6	.0	.0	.0	.0	.0	1.8	
	TOT %	.2	.1	.1	6.6	9.2	1.1	.2	.7	.0	.7	18.9	
10+	0-3	.0	*	.1	1.1	.8	.4	*	.1	.0	1.7	4.2	
	4-10	.8	.2	.6	11.4	9.8	1.7	.5	.5	.0	.0	25.4	
	11-21	.1	.0	.3	23.1	14.0	.5	.1	*	.0	.0	38.1	
	22+	.0	.0	.1	6.3	2.8	.0	.0	.0	.0	.0	9.2	
	TOT %	.9	.2	1.0	41.8	27.3	2.6	.6	.7	.0	1.7	76.9	
TOT OBS													2818
TOT PCT		1.4	.4	1.3	49.6	38.2	3.8	.9	1.7	.0	2.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.0	.0	1.9	10.9	24.9	13.2	3.4	.4	.2	1.1	57.1	42.9	522
06009	1.4	.2	1.1	15.8	32.2	15.1	4.2	.2	.2	1.2	71.5	28.5	569
12015	1.2	.0	1.9	10.7	22.9	15.0	4.0	.7	.2	.5	57.1	42.9	580
18021	.9	.6	.6	10.8	24.7	16.3	4.6	.9	.2	.7	60.3	39.7	539
TOT	25	4	30	267	579	330	90	12	4	20	1361	849	2210
PCT	1.1	.2	1.4	12.1	26.2	14.9	4.1	.5	.2	.9	61.6	38.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	.4	.5	1.9	19.5	76.6	739
06009	1.0	.0	2.2	2.2	16.2	78.4	690
12015	.5	.4	2.7	1.6	19.2	75.6	771
18021	.9	.4	.7	2.0	20.4	75.5	683
TOT	25	9	45	55	543	2206	2883
PCT	.9	.3	1.6	1.9	18.8	76.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH AND 5+	TOTAL OBS
00003	1.0	3.1	15.9	43.0	41.1	509
06009	1.4	2.7	20.4	52.4	27.2	563
12015	1.2	3.3	15.0	43.2	41.8	572
18021	1.1	2.3	13.9	47.5	38.6	533
TOT	26	62	356	1014	807	2177
PCT	1.2	2.8	16.4	46.6	37.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	*	*	.0	.0	2	.1
70/74	.0	*	.1	*	.3	.2	*	.1	18	.9
65/69	.0	.0	.0	1.0	3.6	8.1	5.7	1.5	417	19.9
60/64	.0	.0	.0	.3	6.3	18.9	22.6	6.3	1143	54.5
55/59	.0	.0	.0	.0	.3	1.4	11.7	9.6	484	23.1
50/54	.0	.0	.0	.0	.0	.1	.2	1.4	35	1.7
TOTAL	0	1	2	30	222	602	846	396	2099	100.0
PCT	.0	*	.1	1.4	10.6	28.7	40.3	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.1	.0	.0	.0	.0	.0
*	.0	.0	.5	.3	.1	.0	.0	.0	.0
.0	*	.4	12.0	6.3	.4	.1	.2	.0	.3
.4	.1	.5	30.0	18.6	2.7	.7	.4	.0	1.1
.9	.3	.3	7.8	11.1	.6	.1	.8	.0	1.0
.0	.0	.0	.9	.7	*	*	*	.0	.0
1.3	.4	1.2	51.2	37.1	3.9	.9	1.4	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	67	65	61	55	53	45	60.4	1007
06009	75	68	65	61	55	52	50	60.6	825
12015	84	73	69	64	57	53	52	63.1	1023
18021	74	68	66	62	55	53	52	61.2	816
TOT	84	70	67	62	55	53	45	61.4	3671

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.7	9.1	21.2	43.5	25.4	83	547
06009	.0	1.3	8.5	31.1	37.7	21.4	82	528
12015	.0	2.9	15.0	34.6	37.8	9.8	78	561
18021	.0	1.2	8.8	27.0	41.8	21.3	82	512
TOT	0	33	224	612	863	416	81	2148

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1895-1975

JULY

AREA 0016 SKELETON COAST
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	3	.0	.1
14/16	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	*	.0	.0	.0	5	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	7	.0	.3
7/8	.0	.0	.0	.0	.1	.3	.1	.0	.0	.0	13	.0	.6
6	.0	.0	.0	.1	.3	.4	*	.0	.0	.0	19	*	.8
5	.0	.0	.0	*	.6	.6	.1	.0	.0	.0	30	*	1.2
4	.0	.0	.0	.5	1.2	.7	.2	.1	.0	.0	64	.0	2.7
3	.0	.0	.0	.4	1.2	1.0	.2	.0	.0	.0	64	.1	2.6
2	.0	.0	.0	3.0	2.5	1.3	.1	*	.0	.0	165	.1	6.9
1	.0	.0	.2	2.0	3.5	2.4	*	.0	.0	.0	189	.2	7.8
0	.0	.0	.6	6.4	7.1	3.5	.0	.0	.0	.0	415	.4	17.2
-1	.0	.0	1.4	5.3	9.4	2.8	.0	.0	.0	.0	446	.5	18.4
-2	.0	.0	1.9	4.2	8.0	1.9	*	.0	.0	.0	378	.6	15.5
-3	.0	.0	2.8	2.1	6.1	.8	*	.0	.0	.0	282	.3	11.6
-4	.0	.0	1.7	1.2	2.8	.3	.0	.0	.0	.0	140	.4	5.5
-5	.0	.0	.7	.8	1.5	.4	*	.0	.0	.0	82	*	3.4
-6	.0	.0	.2	.3	.6	.3	.0	.0	.0	.0	31	*	1.3
-7/-8	.0	.0	.0	.3	.3	.1	.0	.0	.0	.0	18	.1	.7
-9/-10	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
-11/-13	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	223	631	1067	398	29	5	1	2358	69	2289	2.9	97.1
PCT	*	*	9.5	26.8	45.3	16.9	1.2	.2	.1	*	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.0	.0	.0	.0	.8	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.9	*	.0	.0	.0	.9	.0	.2	.0	.0	.0	.0	.2
3-4	.0	.1	.1	.0	.0	.0	.2	.0	*	.0	.0	.0	.0	*
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.2	.0	.0	.0	1.9	.1	.3	.0	.0	.0	.0	.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.3	.0	.0	.0	.0	.5	.6	2.1	.0	.0	.0	.0	2.7
1-2	.0	.3	.0	.0	.0	.0	.3	.6	6.8	3.3	.0	.0	.0	10.7
3-4	.0	.2	.3	.0	.0	.0	.5	.1	4.1	10.2	.5	.0	.0	14.8
5-6	.0	.0	*	.0	.0	*	*	.0	.6	8.5	1.2	.0	.0	10.3
7	.0	.0	.0	*	.0	.0	*	.0	.2	4.4	1.5	.0	.0	6.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.6	.1	.0	3.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.9	.1	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	.4	*	.0	.0	1.3	1.3	13.7	28.5	6.4	.4	.0	50.2

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0016 SKELETON COAST
19.35 9.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.5	3.0	.0	.0	.0	.0	3.5	.4	1.0	.0	.0	.0	.0	.0	1.4
1-2	.4	6.8	2.7	.0	.0	.0	9.9	.2	1.3	.0	.0	.0	.0	.0	1.5
3-4	.1	2.8	7.8	.0	.0	.0	11.1	.0	.1	.2	.0	.0	.0	.0	1.3
5-6	.0	.7	5.4	.8	.0	.0	6.9	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.3	1.8	.8	.0	.0	2.9	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	1.0	.7	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.4	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	13.7	19.0	3.4	.2	.0	37.2	.6	2.4	.3	.0	.0	.0	.0	3.3

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.1	.3	.0	.0	.0	.0	.3	.1	.7	.0	.0	.0	.0	.0	.7	
1-2	.0	.4	.0	.0	.0	.0	.4	.1	.6	.0	.0	.0	.0	.0	.6	
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.6	.1	.0	.0	.0	.9	.1	1.4	.2	.0	.0	.0	.0	1.7	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	8.4	.0	.0	.0	.0	13.8	
1-2	1.4	17.1	6.0	.0	.0	.0	24.5	
3-4	.2	7.4	18.6	.8	.0	.0	27.0	
5-6	.0	1.4	13.9	2.0	.0	.0	17.3	
7	.0	.4	6.2	2.3	.0	.0	9.0	
8-9	.0	.0	2.5	2.3	.1	.0	4.8	
10-11	.0	.0	.8	1.3	.1	.0	2.2	
12	.0	.0	.1	.4	.0	.0	.5	
13-16	.0	.0	.0	.6	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.9	34.7	48.1	9.7	.6	.0	100.0	1673

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.6	3.2	5.1	2.8	2.0	1.0	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	309	4
6-7	.2	1.0	4.2	8.2	6.1	3.9	2.1	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	527	6
8-9	.0	.3	1.6	3.5	5.8	4.8	5.4	1.3	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	486	8
10-11	.0	.1	.6	1.3	1.9	1.9	1.3	1.3	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	194	9
12-13	.0	.0	.7	.3	.5	.7	.6	1.0	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	91	9
>13	.0	.0	.0	.4	.3	.6	.5	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	315	3
INDET	4.6	2.5	3.3	2.0	1.3	1.3	.5	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1970	6
TOTAL	105	140	305	364	353	279	212	94	18	3	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	5.3	7.1	15.5	18.5	17.9	14.2	10.8	4.9	4.8	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1894-1975

AUGUST

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19.35 9.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	.0	.0	3.0	.0	.0	.0	.0	3.0	3.0	.0	18.9	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	5.4	.0	21.6	.0	.0	.0
E	.0	.0	6.2	.0	.0	.0	.0	6.2	3.5	.0	1.8	.0	.0	.0
SE	.1	.2	1.3	.0	.0	.0	.0	1.7	.6	.1	2.0	.0	.4	.0
S	.0	.1	1.3	.0	.0	.0	.0	1.4	.4	.1	3.3	.5	1.4	.0
SW	.0	.5	.0	.0	.0	.0	.0	.5	1.9	.5	7.1	1.0	3.2	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.5	.0	2.3	.0
NW	.0	.0	2.4	.0	.0	.0	.0	2.4	.0	.0	22.8	.0	.6	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	6.3	.0	.0	.0	.0	6.3	1.6	.0	15.6	3.1	6.3	.0
TOT PCT	.1	.2	1.4	.0	.0	.0	.0	1.7	.7	.1	3.8	.3	1.0	.0
TOT OBS:	2806													92.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	.0	.0	1.4	.0	.0	.0	.0	1.4	1.0	.1	3.5	.0	.3	.0
06009	.1	.3	2.3	.0	.0	.0	.0	2.7	1.3	.0	4.3	.6	1.1	.0
12015	.0	.3	.7	.0	.0	.0	.0	.9	.3	.0	4.6	.4	1.4	.0
18021	.1	.1	1.5	.0	.0	.0	.0	1.8	.1	.3	2.7	.1	1.2	.0
TOT PCT	.1	.2	1.4	.0	.0	.0	.0	1.7	.7	.1	3.8	.3	1.0	.0
TOT OBS:	2847													92.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.3	.8	.1	.0	.0	.0		1.1	5.7	1.5	.9	1.9	.7	.9	.4	.7	1.0
NE	.1	.5	.0	.1	.0	.0		.6	6.6	1.2	.5	.6	.2	.8	.4	.2	.0
E	.2	.4	.4	.0	.0	.0		1.0	9.6	1.0	.6	1.0	1.4	1.3	1.0	.8	1.5
SE	.7	12.1	26.3	8.8	.3	.0		48.2	15.4	47.6	44.0	48.8	64.4	51.3	37.6	46.0	54.6
S	1.9	14.4	17.2	4.1	.2	.0		37.8	12.9	37.2	40.5	38.2	26.8	36.0	43.1	40.2	32.0
SW	.9	3.4	1.2	.1	.0	.0		5.7	8.1	5.7	7.6	4.0	3.7	4.4	12.3	6.3	7.0
W	.2	.8	.0	.0	.0	.0		1.1	5.8	1.2	.0	.7	1.6	.6	1.7	.0	.0
NW	.5	1.2	.2	.0	.0	.0		1.9	5.8	1.8	3.5	2.1	.2	1.2	3.3	1.6	1.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	2.9	2.4	2.7	1.8	2.5	1.2	2.5	1.9
TOT OBS	283	1308	1773	511	21	1	3897		13.2	805	245	768	109	870	242	755	103
TOT PCT	7.3	33.6	45.5	13.1	.5	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.8	.4	.0	.0	.0		1.1	5.7	1.3	1.7	.8	.7
NE	.5	.1	.1	.0	.0		.6	6.6	1.0	.5	.7	.2
E	.4	.6	.1	.0	.0		1.0	9.6	.9	1.1	1.2	.9
SE	4.7	22.7	17.9	2.8	.0		48.2	15.4	46.7	50.7	48.3	47.0
S	7.3	19.2	10.3	.9	.1		37.8	12.9	38.0	36.8	37.5	39.2
SW	3.0	2.0	.7	.0	.0		5.7	8.1	6.1	3.9	6.1	6.4
W	.8	.4	.0	.0	.0		1.1	5.8	.9	.7	1.4	1.5
NW	1.3	.6	.0	.0	.0		1.9	5.8	2.2	1.9	1.7	1.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.8	2.6	2.2	2.4
TOT OBS	826	1790	1131	143	7	3897		13.2	1050	877	1112	858
TOT PCT	21.2	45.9	29.0	3.7	.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.8	3.4	34.9	44.8	13.5	.6	.1	13.2	100.0	1050
0600	2.0	4.1	34.0	45.2	13.7	.5	.0	13.2	100.0	877
1200	2.2	5.5	32.6	45.3	13.6	.8	.0	13.2	100.0	1112
1800	2.4	6.1	32.0	47.0	11.4	.2	.0	13.0	100.0	858
TOT	98	185	1308	1773	511	21	1	13.2		3897
PCT	2.5	4.7	33.6	45.5	13.1	.5	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.1	.0	.2	.9		7.0
NE	.1	.0	.1	.4		6.7
E	*	*	.4	.5		6.7
SE	5.1	4.7	16.6	28.3		6.4
S	6.4	2.3	6.1	18.8		5.9
SW	.7	.3	1.1	1.9		5.9
W	.1	.1	.5	.6		6.7
NW	.2	*	.2	.9		6.3
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.1	2.1		6.7
TOT OBS	304	171	582	1253	2310	6.2
TOT PCT	13.2	7.4	25.2	54.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.3	.5	.2	.0	*	.0	.0	.1	
NE	.1	.0	*	.2	.1	.0	.0	*	.0	*	.2	
E	.0	*	.0	.2	.3	.2	.2	.0	.0	.0	.1	
SE	.4	.2	.6	7.5	18.2	10.6	3.3	1.0	.4	.8	11.6	
S	.3	.1	1.0	4.7	8.7	5.7	1.6	.9	.2	.4	9.9	
SW	.1	*	.1	.4	1.1	.5	.5	.1	*	.0	1.2	
W	.0	.0	.0	.2	.4	.1	.1	*	.0	*	.3	
NW	.1	*	.0	.2	.6	.2	*	*	.0	*	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.2	.7	.6	.5	*	*	.0	.0	.4	
TOT OBS	27	10	45	331	704	413	134	47	15	30	554	2310
TOT PCT	1.2	.4	1.9	14.3	30.5	17.9	5.8	2.0	.6	1.3	24.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >5000	3.2	3.8	4.0	4.0	4.0	4.0	4.0	4.0
* OR >3500	8.2	9.0	9.9	9.9	9.9	9.9	9.9	9.9
* OR >2000	22.3	27.2	27.8	27.8	27.8	27.9	27.9	27.9
* OR >1000	46.8	56.8	58.3	58.3	58.3	58.4	58.4	58.4
* OR >600	56.1	70.0	72.5	72.7	72.7	72.8	72.8	72.8
* OR >300	56.8	71.7	74.6	74.7	74.7	74.8	74.8	74.8
* OR >150	56.9	71.9	75.0	75.2	75.2	75.3	75.3	75.3
* OR >0	57.1	72.1	75.3	75.6	75.7	76.2	76.2	76.2
TOTAL	1326	1675	1750	1757	1759	1771	1772	1772

TOTAL NUMBER OF OBS: 2324

PCT FREQ NH <5/8: 23.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.9	3.2	3.5	4.1	3.7	4.3	7.7	14.7	48.9	.9	2470

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	.1	*	.0	.3	.1	*	.0	.1	.0	.1	.8	
	TOT %	.1	*	.0	.3	.1	*	.0	.1	.0	.1	.8	
1/2<1	PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	*	.3	*	.0	.0	.0	*	.4	
	TOT %	.0	.0	.0	*	.3	.1	.0	.0	.0	*	.4	
1<2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.1	.1	*	.0	.0	.0	*	.3	
	TOT %	.0	.0	.0	.1	.1	*	.0	.0	.0	*	.3	
2<5	PCP	*	.0	.0	.3	.2	.0	.0	.0	.0	.1	.6	
	NO PCP	.1	.1	*	.8	1.1	.3	.2	.2	.0	.5	3.4	
	TOT %	.2	.1	*	1.1	1.3	.3	.2	.2	.0	.6	4.0	
5<10	PCP	.0	.0	*	.4	.2	.0	.0	.0	.0	.0	.6	
	NO PCP	.4	.3	.2	10.7	11.2	1.0	.4	.5	.0	.6	25.2	
	TOT %	.4	.3	.2	11.1	11.3	1.0	.4	.5	.0	.6	25.8	
10+	PCP	.0	.0	*	.2	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.5	.2	.8	40.0	22.5	2.3	.6	.7	.0	.9	68.4	
	TOT %	.5	.2	.8	40.2	22.6	2.3	.6	.7	.0	.9	68.7	
TOT OBS													2799
TOT PCT		1.1	.6	1.0	52.9	35.8	3.7	1.2	1.5	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	*	*	*	.0	.1	.0	.1	.3	
	4-10	*	*	.0	.2	.1	.0	.0	*	.0	.0	.4	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	.0	.3	.1	*	.0	.1	.0	.1	.7	
1/2<1	0-3	.0	.0	*	.0	.1	*	.0	.0	.0	*	.2	
	4-10	*	.0	.0	*	.2	*	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	*	*	.3	.1	.0	.0	.0	*	.5	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.2	*	.0	.0	.0	*	.4	
2<5	0-3	.1	*	*	.1	.2	.1	.1	.1	.0	.7	1.4	
	4-10	.1	.1	*	.5	.5	.2	.1	.1	.0	.1	1.6	
	11-21	*	.0	.0	.6	.7	*	.0	*	.0	.1	1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	1.1	1.4	.3	.2	.2	.0	.7	4.4	
5<10	0-3	.1	*	.0	.2	.8	.3	*	.1	.0	.7	2.2	
	4-10	.2	.2	.1	3.3	2	.5	.3	.2	.0	.0	9.0	
	11-21	*	.0	.1	5.5	5.0	.1	*	.1	.0	.0	10.8	
	22+	.0	.1	*	2.0	1.0	*	.0	.0	.0	.0	3.1	
	TOT %	.3	.3	.2	10.9	10.9	.9	.3	.5	.0	.7	25.1	
10+	0-3	*	*	.1	.3	.4	.4	.1	*	.0	1.0	2.5	
	4-10	.3	.2	.3	8.9	9.3	1.6	.4	.6	.0	.0	21.5	
	11-21	.1	.0	.4	23.2	10.6	.3	*	*	.0	.0	34.5	
	22+	.0	.0	.0	7.9	2.4	*	.0	.0	.0	.0	10.3	
	TOT %	.5	.2	.7	40.3	22.7	2.4	.6	.6	.0	1.0	68.8	
TOT OBS													3081
TOT PCT		1.1	.6	1.0	52.8	35.7	3.8	1.1	1.4	.0	2.5	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.5	.6	2.1	13.6	29.8	17.2	3.3	.8	.6	1.1	70.6	29.4	523
06009	1.0	.8	2.5	13.8	33.0	18.0	6.7	3.9	.5	1.5	81.6	18.4	610
12015	1.4	.2	1.7	14.2	29.4	18.4	7.5	1.8	.6	1.4	76.4	23.6	657
18021	.7	.2	1.8	15.3	28.1	17.2	5.6	1.2	.9	1.1	72.1	27.9	569
TOT	.27	10	47	335	710	419	139	47	15	30	1779	580	2359
PCT	1.1	.4	2.0	14.2	30.1	17.8	5.9	2.0	.6	1.3	75.4	24.6	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	.3	.3	3.9	27.9	67.1	793
06009	.8	.7	.4	5.8	24.1	68.2	754
12015	.9	.6	.6	3.8	24.4	69.8	850
18021	.8	.6	.4	4.1	25.1	69.0	726
TOT	25	16	13	137	792	2140	3123
PCT	.8	.5	.4	4.4	25.4	68.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.4	4.1	19.6	52.5	27.8	514
06009	1.0	4.3	21.2	62.4	16.4	603
12015	.9	3.3	20.6	58.2	21.2	641
18021	.7	2.8	20.0	53.4	26.7	566
TOT	23	84	474	1321	529	2324
PCT	1.0	3.6	20.4	56.8	22.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.1	.2	.1	*	.0	9	.4
65/69	.0	.0	.0	.2	2.4	4.4	1.6	.3	205	8.9
60/64	.0	.0	.0	.4	7.0	24.7	21.4	4.6	1335	58.1
55/59	.0	.0	.0	.0	.1	3.0	13.9	14.2	716	31.2
50/54	.0	.0	.0	.0	.0	*	.1	1.2	31	1.4
TOT	0	0	0	15	224	740	851	466	2296	100.0
PCT	.0	.0	.0	.7	9.8	32.2	37.1	20.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.1	*	.0	.0	.0	.0
.0	.1	.2	6.2	2.1	.3	*	.0	.0	.0
.2	.0	.5	36.7	17.0	2.5	.4	.4	.0	.5
.7	.3	.2	11.5	14.7	1.0	.6	.8	.0	1.4
*	*	.0	.4	.5	*	.0	.2	.0	.1
.9	.4	1.0	55.0	34.4	3.9	1.1	1.4	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	65	64	59	54	53	48	59.3	1062
06009	80	65	64	60	55	53	48	59.4	886
12015	84	70	67	62	56	55	52	62.0	1113
18021	72	66	64	61	55	54	48	60.3	861
TOT	84	68	66	60	55	54	48	60.3	3922

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.7	7.6	30.5	35.9	25.3	83	596
06009	.0	.4	8.9	29.3	38.8	22.6	83	552
12015	.0	1.1	14.4	35.8	34.0	14.7	79	612
18021	.0	.4	7.5	32.0	39.1	21.0	82	571
TOT	0	15	225	746	859	486	82	2331

AUGUST

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1894-1975

TABLE 17

AREA 0016 SKELETON COAST
19.35 9.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.1	.0	*	.0	3	*	.1
11/13	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	11	.0	.4
9/10	.0	.0	.0	.0	.2	*	.1	.0	.0	.0	8	.0	.3
7/8	.0	.0	.0	.2	.7	.3	.1	.0	.0	.0	30	.1	1.0
6	.0	.0	.0	.0	.3	.3	.1	.0	.0	.0	19	*	.7
5	.0	.0	.0	.2	.5	.5	.1	.0	.0	.0	32	.1	1.2
4	.0	.0	.1	1.1	1.3	.5	.2	.0	.0	.0	82	.2	2.9
3	.0	.0	*	1.2	1.5	1.0	*	.0	.0	.0	97	.3	3.5
2	.0	.0	.3	3.9	2.3	1.3	.0	.0	.0	.0	201	.2	7.5
1	.0	.0	.9	3.7	4.7	1.7	.0	.0	.0	.0	287	.2	10.8
0	.0	.0	2.3	9.5	8.0	1.0	.0	.0	.0	.0	540	.8	20.1
-1	.0	.0	2.8	7.2	10.5	.6	.0	.0	.0	.0	545	.8	20.2
-2	.0	.0	2.4	4.2	6.7	.2	.0	.0	.0	.0	351	.3	13.3
-3	.0	.0	1.4	2.7	3.6	.2	.0	.0	.0	.0	204	.4	7.5
-4	.0	.0	.9	1.1	1.6	.0	.0	.0	.0	.0	94	.2	3.4
-5	.0	.1	.5	.6	.4	.1	.0	.0	.0	.0	45	.1	1.7
-6	.0	.0	.1	.3	.3	.0	.0	.0	.0	.0	18	.0	.7
-7/-8	.0	*	.2	.2	.1	.0	.0	.0	.0	.0	13	*	.5
-9/-10	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	4	*	.1
-11/-13	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
-14/-16	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	6	315	933	1112	202	20	0	1	2593	99	2494	
PCT	.1	.2	12.1	36.0	42.9	7.8	.8	.0	.1	*	100.0	3.8	96.2

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	*	.2	.0	.0	.0	.0	.2
1-2	*	.3	.1	.0	.0	.0	.5	*	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.8	.1	.0	.0	.0	1.2	*	.3	.0	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4	.3	3.2	.1	.0	.0	.0	3.7
1-2	.0	*	*	.0	.0	.0	.1	.1	4.9	3.8	.0	.0	.0	8.8
3-4	.0	.1	.1	*	.0	.0	.2	.1	3.3	10.6	.7	.0	.0	14.6
5-6	.0	.0	.2	.0	.0	.0	.2	.0	1.0	8.9	2.6	.0	.0	12.5
7	.0	.0	.1	.0	.0	.0	.1	.0	.3	4.5	2.6	.1	.0	7.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	1.1	1.4	.2	.0	2.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.6	.2	.0	2.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.5	.2	.0	1.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.4	*	.0	.0	1.0	.4	12.7	30.0	9.9	.6	.0	53.6

PERIOD: (OVER-ALL) 1963-1975

AUGUST

AREA 0016 SKELETON COAST
19.35 9.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	2.8	*	.0	.0	.0		3.2	.3	.6	.0	.0	.0	.0		.9
1-2	.3	6.2	2.3	.0	.0	.0		8.8	.4	1.0	.2	.0	.0	.0		1.6
3-4	.0	3.6	6.9	.2	.0	.0		10.7	.1	.5	.1	.0	.0	.0		.6
5-6	.1	.7	4.6	.5	.0	.0		5.9	.1	.1	.1	.1	.0	.0		.3
7	.0	.2	2.3	1.0	.0	.0		3.5	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.2	1.1	.3	.0	.0		1.6	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.2	.2	.6	.0	.0		1.1	.0	.0	*	.0	.0	.0		*
12	.0	.1	*	.4	.0	.0		.4	.0	.0	.0	*	.0	.0		*
13-16	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	*	*	.0	.0		.1	.0	.1	.0	.0	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	13.9	17.6	3.2	.0	.0		35.3	.8	2.2	.4	.1	.0	.0		3.5

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.4	.0	.0	.0	.0		.5	.1	.4	.0	.0	.0	.0		.5
1-2	.1	.4	.0	.0	.0	.0		.5	.1	.3	*	.0	.0	.0		.4
3-4	.0	.1	.0	.0	.0	.0		.1	.0	*	.1	.0	.0	.0		.1
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	.9	.0	.0	.0	.0		1.1	.2	.7	.1	.0	.0	.0		1.1 97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	8.4	.2	.0	.0	.0	13.1	
1-2	1.1	13.3	6.4	.0	.0	.0	20.8	
3-4	.1	7.6	17.8	.9	.0	.0	26.4	
5-6	.1	1.7	13.7	3.2	.0	.0	18.7	
7	.0	.4	6.8	3.6	.1	.0	11.0	
8-9	.0	.2	2.2	1.7	.1	.0	4.2	
10-11	.0	.2	.8	2.2	.2	.0	3.4	
12	.0	.1	.4	.8	.2	.0	1.5	
13-16	.0	.0	.1	.6	.0	.0	.7	
17-19	.0	.1	.1	.1	.1	.0	.3	
20-22	.0	.0	.1	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	32.0	48.4	13.1	.6	.0	100.0	1789

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	4.5	7.1	5.0	2.9	.7	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	480	4
6-7	.0	.8	3.1	7.5	3.7	3.6	2.2	.8	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	500	7
8-9	.0	*	1.4	4.5	4.4	4.3	3.4	1.2	1.8	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	467	8
10-11	.0	.2	.7	1.3	1.8	2.0	1.9	1.2	.8	*	*	.0	.0	.0	.0	.0	.0	.0	.0	214	8
12-13	.0	.0	.2	.7	.3	1.0	1.1	.6	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	9
>13	.0	.0	.0	.3	.6	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	8
INDET	3.8	2.1	2.9	2.2	2.5	1.1	.7	.4	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	346	4
TOTAL	100	166	330	460	348	275	216	98	113	24	10	0	0	0	0	0	0	0	0	2140	6
PCT	4.7	7.8	15.4	21.5	16.3	12.9	10.1	4.6	5.3	1.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1883-1975AREA 0016 SKELETON COAST
19.25 9.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZ PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	21.7	.0	.0	.0	.0	21.7	4.3	.0	5.8	.0	11.6	.0	56.5
NE	.0	.0	3.2	.0	.0	.0	.0	3.2	12.9	.0	29.0	.0	.0	.0	54.8
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	2.5	.0	.0	.0	94.2
SE	.3	.2	.9	.0	.0	.0	.0	1.4	.4	.2	.9	.0	1.2	.1	95.8
S	.0	.2	1.3	.0	.0	.0	.0	1.4	.6	.6	1.8	.0	1.7	.0	93.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	6.0	.0	2.0	.0	91.1
W	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	.0	19.4	.0	.0	.0	77.8
NW	1.1	.0	.0	.0	.0	.0	.0	1.1	1.1	.0	19.6	4.3	8.7	.0	65.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	.0	3.5	.0	63.2
TOT PCT	.2	.2	1.1	.0	.0	.0	.0	1.5	.5	.4	2.6	*	1.6	*	93.3
TOT OBS:	2504														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT GB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.2	.3	1.3	.0	.0	.0	.0	1.9	.5	1.3	2.0	.0	1.0	.0	93.3
06009	.5	.2	2.2	.0	.0	.0	.0	2.8	1.1	.2	3.9	.0	1.7	.0	90.3
12015	.0	.0	.3	.0	.0	.0	.0	.3	.0	.0	2.2	.1	1.9	.0	95.5
18021	.2	.2	.8	.0	.0	.0	.0	1.1	.5	.2	2.5	.0	1.7	.2	93.8
TOT PCT	.2	.2	1.1	.0	.0	.0	.0	1.5	.5	.4	2.7	*	1.6	*	93.3
TOT OBS:	2557														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	.6	*	.0	.0	.0	.9	4.9	1.3	1.5	.9	.0	.9	.4	.5	.0		
NE	.1	.2	.0	*	.0	.0	.3	6.1	.0	.2	.8	.0	.5	.2	.2	.0		
E	.2	.7	.3	*	.0	.0	1.2	8.1	1.6	.9	1.0	3.2	1.2	1.2	.5	3.3		
SE	.7	12.2	29.8	7.4	.2	.0	50.2	15.1	48.1	48.0	54.0	72.1	49.6	43.5	47.3	62.0		
S	1.1	14.0	18.5	4.5	.3	.0	38.3	13.4	39.7	38.5	34.6	22.3	39.0	41.2	42.6	29.0		
SW	.5	2.6	1.1	.1	*	.0	4.3	8.3	4.5	6.6	2.6	1.5	4.4	7.9	4.4	2.4		
W	.3	1.0	.0	.0	.0	.0	1.4	5.6	1.1	1.1	1.0	.0	1.0	3.5	2.0	1.4		
NW	.2	.8	.1	.0	.0	.0	1.1	5.0	1.8	1.3	1.2	.0	1.2	1.2	.3	.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.3						2.3	.0	1.8	1.8	3.9	1.0	2.2	.8	2.2	.9		
TOT OBS	204	1159	1798	436	16	0	3613		718	227	713	102	810	241	696	106		
TOT PCT	5.6	32.1	49.8	12.1	.4	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					18 21
		7-16	17-27	28-40	00 03					06 09	12 15				
N	.7	.2	.0	.0	.0		.9	4.9	1.3	.8	.8	.4			
NE	.2	.1	*	.0	.0		.3	6.1	.1	.7	.4	.2			
E	.6	.5	.1	.0	.0		1.2	8.1	1.4	1.3	1.2	.8			
SE	4.1	25.0	19.4	1.7	.0		50.2	15.1	48.1	56.2	48.2	49.3			
S	5.5	20.9	10.9	1.0	.0		38.3	13.4	39.4	33.1	39.5	40.8			
SW	2.1	1.9	.2	*	.0		4.3	8.3	5.0	2.5	5.2	4.1			
W	.9	.5	.0	.0	.0		1.4	5.6	1.1	.9	1.6	1.9			
NW	.9	.2	.0	.0	.0		1.1	5.0	1.7	1.1	1.2	.4			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0			
CALM	2.3						2.3	.0	1.8	3.6	1.9	2.0			
TOT OBS	628	1779	1108	98	0	3613		13.4	945	815	1051	802			
TOT PCT	17.4	49.2	30.7	2.7	.0		100.0		100.0	100.0	100.0	100.0			

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	1.8	3.2	33.3	49.2	12.1	.4	.0	13.2	100.0	945
06609	3.6	3.1	29.8	51.3	12.1	.1	.0	13.4	100.0	815
12615	1.9	3.9	32.6	49.4	11.5	.7	.0	13.2	100.0	1051
18621	2.0	3.2	32.2	49.4	12.7	.5	.0	13.6	100.0	802
TOT	82	122	1159	1798	436	16	0	13.4		3613
PCT	2.3	3.4	32.1	49.8	12.1	.4	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	*	.1	.5	7.4	
NE	.0	*	*	.3	7.0	
E	.1	*	.5	.7	6.8	
SE	4.9	4.0	14.4	31.0	6.6	
S	6.5	2.4	7.7	20.5	6.1	
SW	.4	*	.7	1.1	6.0	
W	.1	.0	.3	.7	7.1	
NW	*	.0	.3	.5	7.1	
VAR	.0	.0	.0	.0	6.0	
CALM	.3	.0	.3	1.7	6.8	
TOT OBS	265	142	522	1230	2159	6.4
TOT PCT	12.3	6.6	24.2	57.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	*	.2	.0	*	.1	.0	*	.0	.0	.1	
*	*	.1	.1	*	.0	*	.0	.0	.0	*	
.0	.0	.1	.2	.6	.2	.1	.0	.0	.0	.1	
.2	.1	1.2	7.1	18.4	9.4	3.1	2.0	.5	.2	12.0	
.4	*	1.3	4.8	9.3	6.4	1.0	.9	.7	.4	12.0	
.1	.0	*	.2	.7	.4	.1	.0	*	.1	.7	
.1	*	.0	.2	.2	.2	.1	.0	*	.1	.2	
.2	.0	.0	.1	.2	.1	*	.0	.0	.0	.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.4	*	.1	.2	.4	.3	.1	*	.0	.1	.4	
32	6	64	277	647	370	95	67	26	20	555	2159
1.5	.3	3.0	12.8	30.0	17.1	4.4	3.1	1.2	.9	25.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.6	2.0	2.1	2.1	2.1	2.1	2.1	2.1
* OR >5000	4.2	5.0	5.2	5.2	5.2	5.2	5.2	5.2
* OR >3500	7.9	9.3	9.5	9.5	9.5	9.6	9.6	9.6
* OR >2000	22.4	26.3	27.0	27.1	27.1	27.1	27.1	27.1
* OR >1000	47.0	56.0	56.9	57.0	57.0	57.0	57.0	57.0
* OR >600	56.4	68.5	69.6	69.7	69.7	69.8	69.8	69.8
* OR >300	57.8	71.2	72.5	72.7	72.7	72.7	72.7	72.7
* OR >150	57.8	71.2	72.7	72.9	72.9	73.0	73.0	73.0
* OR >0	57.9	71.4	73.1	73.6	73.6	74.1	74.1	74.2
TOTAL	1270	1565	1603	1614	1614	1624	1625	1626

TOTAL NUMBER OF OBS: 2192

PCT FREQ NH <5/8: 25.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
8.0	2.9	4.5	4.7	4.9	3.9	6.8	12.6	50.6	1.1	2311

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TABLE 8

		PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY										PCT	TOTAL OBS
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM		
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	*	.0	.1	.1	*	.1	.0	.0	.2	.6	.6
	TOT %	.0	*	.0	.1	.1	*	.1	.0	.0	.2	.6	.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1<2	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	.1
	NO PCP	*	.0	.0	.1	.1	.1	*	*	*	*	.4	.4
	TOT %	*	.0	.0	.1	.1	.1	*	*	*	*	.5	.5
2<5	PCP	.1	*	.0	.2	.1	.0	.0	.0	.0	.0	.4	.4
	NO PCP	.0	*	.1	.6	1.3	*	.1	.1	.0	.4	2.5	2.5
	TOT %	.1	.1	.1	.8	1.4	*	.1	.1	.0	.4	2.9	2.9
5<10	PCP	.1	.0	.0	.4	.2	.0	.0	.0	.0	.0	.7	.7
	NO PCP	.3	.1	.2	9.9	8.0	.7	.5	.2	.0	.6	20.5	20.5
	TOT %	.4	.1	.2	10.3	8.2	.7	.5	.2	.0	.6	21.2	21.2
10+	PCP	.0	.0	.0	.1	.2	.0	*	*	.0	.0	.3	.3
	NO PCP	.2	.1	.9	42.4	27.3	1.7	.4	.6	.0	.9	74.5	74.5
	TOT %	.2	.1	.9	42.5	27.5	1.7	.4	.6	.0	.9	74.8	74.8
TOT OBS													2498
TOT PCT		.7	.3	1.2	53.8	37.4	2.5	1.1	.8	.0	2.2	100.0	

TABLE 9

		PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY										PCT	TOTAL OBS
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
<1/2	0-3	.0	*	.0	.0	*	.0	.1	*	.0	.3	.4	.4
	4-10	.0	.0	.0	.1	.1	.1	.1	*	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	*	.0	.1	.1	.1	.1	*	.0	.3	.7	.7
1/2<1	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*
	4-10	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.1	.1	.0	*	.0	.0	*	.2	.2
	4-10	*	.0	.0	.1	.3	.1	*	.1	.0	.5	.5	.5
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2	.2
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	*
	TOT %	*	.0	.0	.2	.4	.1	.1	.1	.0	*	.9	.9
2<5	0-3	.0	.0	*	*	.1	.0	.1	.1	.0	.4	.6	.6
	4-10	.1	*	*	.3	.7	*	.0	.0	.0	1.2	1.2	1.2
	11-21	.0	.0	*	.2	.7	*	.0	.0	.0	.9	.9	.9
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0	.2	.2	.2
	TOT %	.1	*	.1	.7	1.5	.1	.1	.1	.0	.4	2.9	2.9
5<10	0-3	.1	*	.0	.3	.1	.1	.1	*	.0	.6	1.5	1.5
	4-10	.2	*	.2	3.0	3.0	.5	.3	.2	.0	7.3	7.3	7.3
	11-21	*	.0	.1	5.0	3.9	.1	.0	.0	.0	9.1	9.1	9.1
	22+	.0	*	.0	1.6	1.0	*	.0	.0	.0	2.6	2.6	2.6
	TOT %	.4	.1	.2	9.9	8.0	.7	.4	.2	.0	.6	20.5	20.5
10+	0-3	.0	.0	.1	.3	.6	.1	*	*	.0	.8	2.1	2.1
	4-10	.2	.1	.6	9.3	9.1	1.1	.3	.4	.0	21.0	21.0	21.0
	11-21	.0	.0	.3	27.7	14.4	.4	.0	.1	.0	42.9	42.9	42.9
	22+	.0	.0	*	6.0	2.7	.0	.0	.0	.0	8.8	8.8	8.8
	TOT %	.2	.1	1.0	43.3	26.8	1.7	.4	.5	.0	.8	74.8	74.8
TOT OBS													2858
TOT PCT		.7	.3	1.3	54.2	36.9	2.6	1.0	.8	.0	2.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	2.3	.0	3.2	12.9	31.0	17.7	3.0	1.8	1.1	.7	73.8	26.2	435
06009	1.2	.7	3.6	13.5	31.6	19.1	4.7	5.1	1.2	.7	81.4	18.6	591
12015	1.3	.2	2.4	11.4	28.1	16.1	4.2	4.4	.8	.8	69.6	30.4	616
18021	1.2	.2	2.8	13.0	28.4	16.7	4.9	.5	1.6	1.6	70.9	29.1	570
TOT PCT	32 1.4	6 .3	66 3.0	280 12.7	657 29.7	384 17.4	95 4.3	68 3.1	26 1.2	21 .9	1635 73.9	577 26.1	2212 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	.1	1.5	3.8	23.1	70.9	714
06009	1.4	.3	1.1	2.7	18.9	75.6	713
12015	.5	.0	.8	1.8	19.1	77.8	794
18021	1.0	.3	.1	3.5	21.8	73.3	692
TOT PCT	25 .9	5 .2	26 .9	84 2.9	603 20.7	2170 74.5	2913 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.1	5.3	19.9	55.3	24.8	432
06009	.9	5.6	21.0	61.2	17.9	587
12015	1.0	3.8	15.8	54.5	29.7	609
18021	1.1	3.9	19.5	52.7	27.8	564
TOT PCT	26 1.2	101 4.6	415 18.9	1227 56.0	550 25.1	2192 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.0	.0	.0	.0	2	.1
70/74	.0	.0	.0	.0	.4	.3	.1	.2	17	.9
65/69	.0	.0	.1	.3	2.5	4.0	1.6	.4	175	8.8
60/64	.0	.0	.0	.3	4.9	23.1	26.8	6.2	1212	61.2
55/59	.0	.0	.0	.0	.4	2.3	13.7	11.6	555	28.0
50/54	.0	.0	.0	.0	.0	.0	.1	1.0	21	1.1
TOTAL	0	0	1	13	163	587	836	382	1982	100.0
PCT	.0	.0	.1	.7	8.2	29.6	42.2	19.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.1	.0	.0
.0	.0	.0	.4	.5	.1	.0	.0	.0	.0
.0	.0	.1	6.2	2.3	*	.1	*	.0	.1
.1	*	1.0	40.8	16.4	1.3	.5	.3	.0	.7
.5	.1	.1	10.8	14.4	.7	.3	.3	.0	.7
.0	.1	.0	.4	.4	.0	.1	.1	.0	.1
.6	.2	1.2	58.5	34.1	2.1	.9	.8	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	66	64	60	55	54	51	59.5	966
06009	71	66	64	60	55	53	50	59.7	828
12015	78	72	69	63	57	55	50	62.6	1049
18021	77	66	64	61	56	54	53	60.6	811
TOT	78	70	66	61	55	54	50	60.7	3654

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	3.3	24.7	44.3	27.4	84	485		
06009	.0	.6	5.8	31.0	43.3	19.2	82	496		
12015	.0	1.5	16.5	36.0	34.5	11.6	78	528		
18021	.0	.4	6.3	25.6	46.8	21.0	83	524		
TOT	0	14	165	598	857	399	82	2033		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
17/19	.0	.0	.0	.0	.0	*	*	.0	2	.0	.1
14/16	.0	.0	.0	.1	.2	.1	*	.0	11	*	.4
11/13	.0	.0	.0	.3	.0	.2	*	.0	11	*	.4
9/10	.0	.0	.3	.2	.1	.3	.0	.0	22	.1	.8
7/8	.0	.0	.3	.5	.4	.3	.0	.0	35	*	1.5
6	.0	.0	.0	.1	.1	.2	.0	.0	10	.0	.4
5	.0	*	.2	1.0	.9	.3	.0	.0	58	*	2.5
4	.0	.0	.7	1.6	1.0	.0	.0	.0	76	.0	3.3
3	.0	*	1.0	1.5	1.0	.0	.0	.0	82	.2	3.4
2	.0	.2	3.9	3.5	1.5	*	.0	.0	209	.2	8.9
1	.0	.8	3.3	5.6	1.5	*	.0	.0	259	.3	11.0
0	.0	2.1	9.1	11.3	.8	.0	.0	.0	538	.6	22.7
-1	.0	2.0	7.2	11.4	.1	.0	.0	.0	475	.5	20.1
-2	*	2.1	5.4	4.9	.2	.1	.0	.0	292	.4	12.2
-3	.0	.9	2.4	1.5	.0	.0	.0	.0	112	*	4.8
-4	.1	.7	1.2	1.0	.0	.0	.0	.0	69	.2	2.8
-5	*	.2	.3	.2	*	.0	.0	.0	18	*	.7
-6	.0	.0	.2	.2	.0	.0	.0	.0	8	.0	.3
-7/-8	.1	.1	.1	.2	.0	.0	.0	.0	10	.0	.4
-9/-10	.0	.0	.1	*	.0	.0	.0	.0	3	.0	.1
-11/-13	.0	*	.2	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	6		827		179		3		2307	62	2245
PCT	.3	9.2	35.8	45.0	7.8	1.7	.1	.1	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.1
1-2	.0	.3	.0	.0	.0	.0	.3	.0	*	.0	.0	.0	.0	.0	*	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.0	.0	.0	.0	.6	.1	.1	.0	.0	.1	.0	.0	.0	.2

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.1	.0	.0	.0	.0	.2	.3	1.0	.0	.0	.0	.0	.0	.0	1.3
1-2	.1	.3	.0	.0	.0	.0	.3	.3	5.8	4.7	.0	.0	.0	.0	.0	10.8
3-4	.0	.1	.4	.0	.0	.0	.4	.0	4.8	11.7	.8	.0	.0	.0	.0	17.2
5-6	*	.1	.0	.0	.0	.0	.1	*	.9	10.2	2.3	.0	.0	.0	.0	13.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.9	1.6	*	.0	.0	.0	6.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	.9	1.0	.1	.0	.0	.0	2.1
10-11	.0	.0	.0	*	.0	.0	*	.0	.0	.2	1.0	.1	.0	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	*	.0	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	.4	*	.0	.0	1.1	.7	12.6	32.7	7.3	.2	.0	.0	.0	53.5

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0016 SKELETON COAST
19.25 9.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	2.3	.1	.0	.0	.0		2.0	.1	.3	.0	.0	.0	.0		.4
1-2	.5	6.6	4.1	.0	.0	.0		11.2	.1	.9	.1	.0	.0	.0		1.1
3-4	.0	3.1	9.0	.5	.0	.0		13.5	.0	.1	.2	.0	.0	.0		.3
5-6	.0	.7	4.5	.9	.0	.0		6.1	.0	*	.1	.0	.0	.0		.2
7	.0	.2	2.1	.4	*	.0		2.7	.0	*	.1	.0	.0	.0		.1
8-9	.0	.0	.7	.9	.0	.0		1.8	.0	.0	.1	.0	.0	.0		.1
10-11	.0	.0	.2	.5	.2	.0		.9	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.1	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.1	.1	*	.0		.2	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.1	13.2	20.7	3.4	.3	.0		38.7	.3	1.3	.6	.0	.0	.0		2.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.1	.0	.0	.0	.0		.2	.1	.1	.0	.0	.0	.0		.2	
1-2	.1	.3	.0	.0	.0	.0		.3	.1	.1	.1	.0	.0	.0		.3	
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.0		.1	
5-6	.0	*	.0	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	.4	.0	.0	.0	.0		.6	.1	.4	.1	.0	.0	.0		.6	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	4.4	.1	.0	.0	.0	9.5	
1-2	1.2	14.1	8.9	.0	.0	.0	24.2	
3-4	.0	8.1	20.9	1.2	.0	.0	30.2	
5-6	.1	1.8	14.5	3.3	.0	.0	19.6	
7	.0	.4	6.9	2.0	.1	.0	9.4	
8-9	.0	.2	1.6	1.9	.1	.0	3.9	
10-11	.0	.0	.4	1.6	.2	.0	2.2	
12	.0	.0	.0	.2	.1	.0	.3	
13-16	.0	.0	.2	.4	.1	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	28.9	53.6	10.7	.5	.0	100.0	1700

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.3	3.8	6.2	4.5	2.6	.7	.9	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	379	4
6-7	.1	.4	3.4	6.0	7.1	2.8	1.9	.8	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	468	7
8-9	.0	.2	1.6	4.8	6.3	4.5	2.2	1.1	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	433	7
10-11	.0	.4	.9	1.3	3.1	2.7	3.0	.8	.7	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	257	8
12-13	.0	.0	.5	.4	1.0	.4	.9	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	8
>13	.0	.0	.0	.6	.5	.2	.4	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	9
INDET	3.1	4.0	2.8	3.2	1.6	1.1	.5	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	329	4
TOTAL	67	173	307	412	440	243	193	66	66	13	5	1	0	0	0	0	0	0	0	0	1988	6
PCT	3.4	8.7	15.4	20.7	22.1	12.2	9.7	3.3	3.3	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1860-1975AREA 0016 SKELETON COAST
19.25 9.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	18.5	.0	16.7	.0	59.3
NE	5.9	.0	.0	.0	.0	.0	.0	5.9	5.9	.0	11.8	.0	.0	.0	76.5
E	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	5.8	.0	89.9
SE	.2	.1	.6	.0	.0	.0	.0	.9	.3	.0	1.1	.1	.6	.0	96.9
S	.1	.1	.5	.0	.0	.0	.0	.7	.5	.2	2.3	.3	2.1	.0	93.8
SW	.0	.0	.2	.0	.0	.0	.0	.2	1.2	.0	4.4	2.0	7.9	.0	84.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.4	.0	82.6
NW	.0	.0	.9	.0	.0	.0	.0	9.1	.0	.0	27.3	.0	45.5	.0	18.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.0	.0	.0	.0	.0	4.0	4.0	.0	12.0	.0	24.0	.0	56.0
TOT PCT	.2	.1	.6	.0	.0	.0	.0	.9	.5	.1	2.0	.3	2.2	.0	94.0
TOT OBS:	2494														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	.3	.3	.3	.0	.0	.0	.0	1.0	.5	.3	2.1	.0	1.4	.0	94.7
06009	.2	.0	1.4	.0	.0	.0	.0	1.6	.8	.0	4.2	.5	2.0	.0	91.0
12015	.3	.0	.3	.0	.0	.0	.0	.6	.0	.0	1.2	.3	3.2	.0	94.7
18021	.0	.0	.5	.0	.0	.0	.0	.5	.7	.0	1.3	.3	2.5	.0	94.8
TOT PCT	.2	.1	.6	.0	.0	.0	.0	.9	.5	.1	2.2	.3	2.3	.0	93.8
TOT OBS:	2540														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	.4	.1	.0	.0	.0	.7	5.6	.9	.8	.8	.5	.5	.2	.8	1.1		
NE	.2	.4	.0	.0	.0	.0	.2	6.7	.3	.0	.6	.0	.0	.3	.0	.0		
E	.1	.4	.2	.0	.0	.0	.6	9.2	.6	.6	1.1	1.0	.7	.0	.1	.5		
SE	.7	11.8	28.1	6.0	.8	*	47.5	15.1	46.0	44.2	52.8	63.4	49.2	38.6	42.6	53.0		
S	1.7	15.5	20.3	4.1	.3	.0	42.0	13.1	42.9	43.8	37.6	31.4	41.6	46.1	46.0	38.2		
SW	.4	3.7	1.2	.2	.0	.0	5.6	9.0	5.6	4.9	3.9	2.1	5.7	8.3	7.0	4.8		
W	.4	.8	.1	.*	.0	.0	1.3	6.2	1.2	1.4	1.2	.0	1.1	2.3	1.6	.5		
NW	.1	.6	*	.0	.0	.0	.7	6.5	.9	1.4	.3	.5	.5	2.3	.4	1.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.5						1.5	.0	1.5	2.8	1.9	1.0	.8	2.1	1.3	.9		
TOT OBS	186	1221	1835	381	40	1	3664		13.4	754	246	726	97	798	240	693	110	
TOT PCT	5.1	33.3	50.1	10.4	1.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.6	.1	.0	.0	.0	.0	.7	5.6	.9	.7	.4	.8
NE	.1	.1	.0	.0	.0	.0	.2	6.7	.2	.5	.*	.2
E	.2	.3	.1	.0	.0	.0	.6	9.2	.8	1.1	.5	.1
SE	3.6	24.6	17.2	2.0	.*	47.5	15.1	45.5	54.0	46.8	44.1	
S	6.8	23.1	10.7	1.3	.*	42.0	13.1	43.1	36.8	42.6	44.9	
SW	2.0	3.1	.4	.*	.0	5.6	9.0	5.5	3.6	6.3	6.7	
W	.8	.4	.*	.0	.0	1.3	6.2	1.3	1.1	1.3	1.4	
NW	.4	.3	.0	.0	.0	.7	6.5	1.0	.3	.9	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5					1.5	.0	1.8	1.8	1.1	1.2	
TOT OBS	592	1907	1041	122	2	3664		13.4	1000	823	1038	803
TOT PCT	16.2	52.0	28.4	3.3	.1	100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.8	3.3	35.0	48.4	10.4	1.1	.0	13.3	100.0	1000
00009	1.8	4.1	30.1	51.6	10.8	1.3	.1	13.7	100.0	823
12015	1.1	3.8	32.9	51.7	9.7	.9	.0	13.2	100.0	1038
18021	1.2	3.2	35.1	48.4	10.8	1.1	.0	13.5	100.0	803
TOT	54	132	1221	1835	381	40	1	13.4		3664
PCT	1.5	3.6	33.3	50.1	10.4	1.1	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CO	TOTAL OBS	MEAN CLOUD COVER
N	.2	*	.1	.1		3.8
NE	*	.0	.1	.1		6.0
E	.1	.1	.1	.4		6.2
SE	5.3	4.7	16.4	25.5		6.3
S	9.4	3.6	11.0	16.4		5.4
SW	1.1	.3	1.1	1.4		5.1
W	.3	.1	.1	.5		5.3
NW	.1	*	.2	.1		5.5
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.3	.3		5.5
TOT OBS	363	198	641	972	2174	5.9
TOT PCT	16.7	9.1	29.5	44.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	*	.0	*	*	.0	*	.0	.0	.0	.0	.2	
NE	.0	.0	*	.0	.1	*	.0	.0	.0	.0	*	
E	.0	.0	.0	*	.3	*	.0	*	*	.0	.3	
SE	.2	*	.9	5.6	16.8	10.4	2.6	1.4	.4	.2	13.5	
S	.5	.0	.9	3.8	10.1	5.5	1.8	.7	.2	.3	16.6	
SW	.1	*	.1	.3	1.1	.4	.2	.2	*	.0	1.6	
W	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.4	
NW	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.1	*	.0	*	.1	.4	
TOT OBS	17	2	43	212	637	362	100	50	17	14	720	2174
TOT PCT	.8	.1	2.0	9.8	29.3	16.7	4.6	2.3	.8	.6	33.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.2	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	2.7	3.4	3.6	3.6	3.6	3.6	3.6	3.6
* OR >3500	6.5	8.0	8.2	8.2	8.2	8.2	8.2	8.2
* OR >2000	19.9	24.2	25.2	25.2	25.2	25.2	25.2	25.2
* OR >1000	43.5	52.6	54.6	54.6	54.7	54.7	54.7	54.7
* OR >600	51.0	61.9	64.2	64.3	64.3	64.3	64.3	64.3
* OR >300	52.0	63.7	66.1	66.2	66.2	66.3	66.3	66.3
* OR >150	52.1	63.9	66.3	66.3	66.4	66.4	66.4	66.4
* OR >0	52.2	64.0	66.5	66.6	66.6	67.2	67.3	67.3
TOTAL	1148	1409	1463	1465	1466	1478	1480	1480

TOTAL NUMBER OF OBS: 2200

PCT FREQ NH <5/8: 32.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS CO	TOTAL OBS
	8.6	6.3	6.5	5.4	5.7	5.0	8.6	13.9	39.3	.7	2320

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	.1	.4	.1	.0	.0	.0	.0	.6	
	TOT %	*	.0	.0	.1	.5	.1	.0	.0	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	.0	*	.1	.0	.0	.0	.0	.0	.2	
	TOT %	*	*	.0	.1	.1	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	*	*	.1	*	.0	.0	*	.0	.0	.2	
	NO PCP	.3	*	.0	.5	1.3	.4	.1	.2	.0	.3	3.1	
	TOT %	.3	*	*	.6	1.3	.4	.1	.3	.0	.3	3.3	
5<10	PCP	.0	.0	.0	.3	.2	*	.0	.0	.0	*	.6	
	NO PCP	.1	*	.1	8.6	9.5	1.5	.4	.1	.0	.3	20.4	
	TOT %	.1	*	.1	8.9	9.8	1.5	.4	.1	.0	.3	21.0	
10+	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.1	.1	.6	41.7	29.2	2.1	.4	*	.0	.4	74.6	
	TOT %	.1	.1	.6	41.8	29.2	2.1	.4	*	.0	.4	74.7	
TOT OBS		.5	.2	.7	51.5	40.9	4.0	.9	.3	.0	1.0	100.0	2482
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.1	*	.0	.0	.0	*	.2	
	4-10	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	*	.0	.0	.1	.4	.1	.0	.0	.0	*	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.0	.1	.1	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	11-21	*	*	.0	*	.0	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.0	.1	.1	*	.0	.0	.0	.0	.3	
2<5	0-3	.1	*	.0	.1	.2	*	.0	*	.0	.4	.7	
	4-10	.2	*	*	.3	.7	.3	.1	.2	.0	.1	1.9	
	11-21	.0	.0	.0	.2	.5	*	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.1	*	.7	1.6	.4	.1	.2	.0	.4	3.7	
5<10	0-3	.0	*	*	.3	.3	*	.1	*	.0	.4	1.2	
	4-10	.1	*	.0	1.6	3.4	1.0	.2	*	.0	.6	6.3	
	11-21	*	.0	*	5.0	5.0	.3	.0	.0	.0	10.3		
	22+	.0	.0	*	2.1	1.1	*	.0	.0	.0	.3	3.3	
	TOT %	.1	.1	.1	9.0	9.8	1.4	.3	.1	.0	.4	21.2	
10+	0-3	.0	.0	*	.2	.6	.2	.2	*	.0	.4	1.5	
	4-10	.1	.1	.3	10.5	10.3	1.4	.1	*	.0	.22.8		
	11-21	*	*	.2	26.0	14.8	.4	*	.0	.0	41.5		
	22+	.0	.0	.0	5.3	2.8	.1	.0	.0	.0	.8.2		
	TOT %	.1	.1	.5	41.9	28.6	2.0	.3	*	.0	.4	74.0	
TOT OBS		.5	.2	.7	51.9	40.6	3.9	.8	.3	.0	1.2	100.0	2822
TOT PCT													

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1860-1975

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	1.6	.2	1.6	9.2	29.3	15.0	3.9	1.8	.4	.8	63.7	36.3	512
06609	1.4	.3	1.9	12.6	31.7	18.5	4.5	4.0	1.0	1.0	77.0	23.0	578
12615	.3	.0	2.0	9.0	27.8	16.3	4.0	1.3	1.0	.3	62.2	37.8	600
18621	.2	.0	2.2	7.0	27.5	16.7	5.9	1.6	.5	.4	62.1	37.9	546
TOT PCT	19 .8	3 .1	43 1.9	212 9.5	650 29.1	373 16.7	102 4.6	50 2.2	17 .8	14 .6	1483 66.3	753 33.7	2236 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.8	.3	.7	5.1	20.8	72.4	742
06609	1.1	.1	.4	3.2	21.3	73.8	698
12615	.3	.1	.1	2.5	20.3	76.7	759
18621	.3	.3	.0	4.6	22.0	72.8	668
TOT PCT	18 .6	6 .2	9 .3	110 3.8	604 21.1	2120 73.9	2867 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	1.6	3.4	17.7	50.4	31.9	496
06609	1.4	3.7	19.2	58.7	22.1	574
12615	.3	2.4	13.5	49.7	36.8	592
18621	.2	2.6	12.5	51.5	36.1	538
TOT PCT	19 .9	66 3.0	345 15.7	1158 52.6	697 31.7	2200 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.0	.0	.0	.0	2	.1
70/74	.0	.0	.0	.2	.7	.7	.2	.0	37	1.7
65/69	.0	.0	.0	.4	2.9	6.9	3.9	1.0	323	15.1
60/64	.0	.0	.0	.0	3.6	23.7	28.6	9.4	1391	65.2
55/59	.0	.0	.0	.0	*	.7	10.0	7.1	380	17.8
TOTAL	0	0	0	14	153	680	913	373	2133	100.0
PCT	.0	.0	.0	.7	7.2	31.9	42.8	17.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	*	.1	.0	.0	.0	.0	.0
70/74	.0	.0	.0	1.1	.6	*	.0	.0	.0	.0
65/69	.0	.0	.1	9.8	4.7	.3	.1	*	.0	.1
60/64	*	.1	.4	37.8	22.5	3.1	.7	*	.0	.6
55/59	.5	.1	*	6.2	9.6	.6	.1	.5	.0	.2
TOTAL	.5	.1	.5	55.0	37.5	4.0	.9	.5	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	76	66	64	61	56	54	50	60.6	1018
06609	73	67	65	61	56	55	54	61.0	835
12615	79	74	70	64	58	57	55	64.2	1027
18621	80	69	66	62	57	56	54	61.9	809
TOT	80	72	68	62	57	55	50	62.0	3689

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.2	2.9	26.8	45.3	24.8	84	548
06609	.0	.0	6.7	31.0	41.9	20.4	82	535
12615	.0	2.4	14.0	37.3	36.1	10.2	78	549
18621	.0	.0	5.2	31.3	47.0	16.4	82	536
TOT	0	14	157	686	922	389	82	2168

PERIOD: (PRIMARY) 1927-1975
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FUG	WU FOG
20/22	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
14/16	.0	.0	.0	.0	.0	.1	.0	.0	3	.0	.1
11/13	.0	.0	.0	.0	.1	.3	.1	.0	11	.0	.5
9/10	.0	.0	.0	*	.3	.2	.1	.0	15	.0	.6
7/8	.0	.0	.0	.7	.9	.7	.0	.0	53	.0	2.3
6	.0	.0	*	.3	.7	.3	.0	*	32	.0	1.4
5	.0	.0	.2	.7	.9	.5	.0	*	53	*	2.2
4	.0	.0	.1	1.9	1.3	.3	*	.0	84	*	3.6
3	.0	.0	.3	2.1	1.4	.3	.0	.0	94	.0	4.1
2	.0	.0	2.2	4.4	2.3	*	.0	.0	207	.2	8.8
1	.0	.2	4.2	8.1	2.9	.1	.0	.0	359	.3	15.2
0	.0	.7	8.0	14.3	1.8	*	.0	.0	573	.7	24.0
-1	.0	1.0	5.7	12.3	.6	*	.0	.0	455	.4	19.3
-2	.0	.6	2.6	5.2	*	.0	.0	.0	195	.1	8.3
-3	.0	.2	1.0	2.0	.1	*	.0	.0	78	.1	3.3
-4	.0	.0	.8	1.1	*	.0	.0	.0	44	.1	1.8
-5	.0	.1	.6	.6	.1	.0	.0	.0	29	*	1.2
-6	.0	.0	.2	.3	.0	.0	.0	.0	11	.0	.5
-7/-8	*	.0	.1	.2	.0	.0	.0	.0	9	.0	.4
-9/-10	.0	.0	*	.1	.0	.0	.0	.0	3	.0	.1
-11/-13	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	65	600	1254	314	65	9	3	2312	48	2264
PCT	.1	2.8	26.0	54.2	13.6	2.8	.4	.1	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2	*	.1	.0	.0	.0	.0	.1
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.0	.0	.0	.0	.4	*	.2	.0	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2	.4	1.2	.1	.0	.0	.0	1.7
1-2	.0	.2	*	.0	.0	.0	.2	.1	0.4	3.1	.0	.0	.0	9.5
3-4	.0	.1	.1	.0	.0	.0	.2	.0	3.8	10.0	.6	.0	.0	14.4
5-6	.0	*	.1	.0	.0	.0	.1	.0	.8	11.0	1.5	.0	.0	13.2
7	.0	.0	.0	.0	.0	.0	.0	*	.1	4.3	1.7	.0	.0	6.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.7	1.0	.0	.0	3.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.4	.9	.7	.0	2.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.6	.2	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.6	.1	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.2	.0	.0	.0	.7	.5	12.8	30.7	6.9	.9	.0	51.7

PERIOD: (OVER-ALL) 1963-1975

OCTOBER

AREA 0016 SKELETON COAST
19.25 9.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.4	.1	.0	.0	.0	3.0	.2	.6	.0	.0	.0	.0	.8
1-2	.2	8.1	3.2	.0	.0	.0	11.5	.1	1.4	.1	.0	.0	.0	1.5
3-4	.1	3.8	7.3	.5	.0	.0	11.7	.0	.6	.1	.0	.0	.0	.7
5-6	.0	.3	5.2	1.5	.0	.0	7.0	.0	*	.2	.1	.0	.0	.3
7	*	.1	3.1	1.9	.1	.0	5.2	.0	.0	*	*	.0	.0	*
8-9	.0	.1	.8	.5	.1	.0	1.4	.1	.1	.0	.0	.0	.0	.2
10-11	.0	.1	.2	.4	.1	.0	.7	.0	.0	.0	*	.0	.0	.0
12	.0	.0	.2	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.1	*	*	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	15.0	20.0	5.1	.3	.0	41.3	.3	2.7	.3	.1	.0	.0	3.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.1	.0	.0	.0	.0	.3	*	.1	.0	.0	.0	.0	.1	
1-2	.3	.4	.0	.0	.0	.0	.7	*	.0	.0	.0	.0	.0	*	
3-4	.0	.1	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	.6	.0	.0	.0	.0	1.0	*	.1	.0	.0	.0	.0	.2	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	4.8	.2	.0	.0	.0	8.1	
1-2	.7	16.6	6.3	.0	.0	.0	23.6	
3-4	.1	8.4	17.4	1.1	.0	.0	26.9	
5-6	.0	1.1	16.3	3.0	.0	.0	20.3	
7	.1	.2	7.3	3.6	.1	.0	11.2	
8-9	.1	.7	2.4	1.5	.1	.0	4.8	
10-11	.0	.1	.6	1.3	.8	.0	2.8	
12	.0	.0	.2	.9	.1	.0	1.1	
13-16	.0	.1	.2	.6	.2	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.0	32.1	50.8	12.0	1.2	.0	100.0	1612

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	5.9	7.4	4.8	3.2	1.3	1.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	483	4
6-7	.0	.8	4.8	8.2	6.7	3.8	2.8	1.0	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	576	6
8-9	.0	.4	2.1	4.1	6.1	5.3	2.4	.6	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	437	7
10-11	.0	.1	.3	.8	3.4	1.7	1.2	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	178	8
12-13	.0	.0	.7	.6	.4	.5	.5	.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	8
>13	.0	.0	.0	.3	.3	.3	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	8
INDET	1.9	1.3	1.8	2.6	1.3	.7	1.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	221	5
TOTAL	49	168	337	425	426	269	178	58	64	8	2	2	0	0	0	0	0	0	0	1986	6
PCT	2.5	8.5	17.0	21.4	21.5	13.5	9.0	2.9	3.2	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1895-1975

TABLE 1

AREA 0016 SKELETON COAST
19.25 9.2E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.5	.0	10.0	.0	67.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	37.5	.0	.0	.0	56.3
E	.0	.0	4.0	.0	.0	.0	.0	4.0	.0	3.0	3.0	.0	.0	.0	90.0
SE	.0	.2	.7	.0	.0	.0	.0	.9	.7	.1	1.1	.0	1.0	.0	96.2
S	.1	.2	.7	.0	.0	.0	.0	1.0	.0	.3	2.3	.1	3.0	.1	93.2
SW	.0	.0	.3	.0	.0	.0	.0	.3	.0	1.2	7.7	.0	3.7	.0	87.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	6.7	.0	90.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	.0	20.0	.0	70.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	.0	.0	.0	90.6
TOT PCT	*	.2	.7	.0	.0	.0	.0	.9	.3	.2	2.3	*	2.2	*	94.0
TOT OBS:	2086														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.2	.2	1.0	.0	.0	.0	.0	1.4	.2	.8	1.6	.0	1.8	.0	.0	94.2
06109	.0	.0	.9	.0	.0	.0	.0	1.5	.8	.0	3.2	.0	1.5	.0	.0	93.0
12015	.0	.0	.4	.0	.0	.0	.0	.4	.2	.0	2.5	.2	2.5	.2	.2	94.2
18021	.0	.2	.4	.0	.0	.0	.0	.6	.2	.2	1.8	.0	3.1	.0	.0	94.1
TOT PCT	*	.2	.7	.0	.0	.0	.0	.9	.3	.2	2.3	*	2.2	*	.0	93.9
TOT OBS:	2116															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.4	*	.0	.0	.0		.5	5.9	.3	.5	.7	.0	.3	.5	.8	.0	
NE	.1	.3	.0	.0	.0	.0		.3	5.2	.2	.5	.5	.0	.3	.5	*	.0	
E	.1	.6	.4	.0	.0	.0		1.1	6.5	1.2	1.9	.7	2.3	1.0	1.2	.5	2.8	
SE	.6	12.0	26.4	3.9	.3	.0		43.1	14.0	45.1	38.3	44.3	58.7	44.9	34.4	38.5	56.9	
S	1.1	17.1	21.7	3.9	.2	.0		44.0	13.0	42.5	40.4	43.3	35.5	43.1	47.7	50.0	35.0	
SW	.5	3.9	2.3	.1	.0	.0		6.9	9.7	6.5	10.7	6.3	2.3	5.6	12.2	7.6	1.1	
W	.5	.8	.1	.0	.0	.0		1.3	5.4	1.4	2.0	1.2	.0	1.4	1.6	.9	3.3	
NW	.2	.7	.0	.0	.0	.0		.8	6.3	.7	.7	1.1	.0	.9	1.0	.8	.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0							2.0	.0	2.0	5.0	2.0	1.2	2.5	1.0	1.0	.0	
TOT DBS	161	1126	1607	248	14	0	3156		12.7	645	221	603	86	691	205	615	90	
TOT PCT	5.1	35.7	50.9	7.9	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.3	.1	.0	.0	.0	.5	5.9	.3	.6	.3	.7	
NE	.2	*	.0	.0	.0	.3	5.2	.3	.5	.3	*	
E	.4	.6	.1	.0	.0	1.1	6.5	1.4	.9	1.1	.8	
SE	3.2	26.5	12.6	.8	.0	43.1	14.0	43.4	46.1	42.5	40.9	
S	5.6	26.0	11.5	.9	.0	44.0	13.0	41.9	42.3	44.1	48.0	
SW	1.9	4.3	.7	*	.0	6.9	9.7	7.6	5.8	7.1	6.7	
W	.9	.4	.0	.0	.0	1.3	5.4	1.6	1.0	1.5	1.2	
NW	.4	.4	.0	.0	.0	.8	6.3	.7	1.0	.9	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0					2.0	.0	2.8	1.9	2.1	.9	
TOT DBS	473	1842	786	55	0	3156		866	689	896	705	
TOT PCT	15.0	58.4	24.9	1.7	.0	100.0		100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1895-1975AREA 0016 SKELETON COAST
19.25 9.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+*	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.8	3.2	32.1	52.9	8.4	.6	.0	12.8	100.0	866
06009	1.9	3.0	37.7	47.6	8.7	.4	.0	12.6	100.0	689
12015	2.1	3.1	37.6	49.7	7.0	.4	.0	12.5	100.0	896
18021	.9	2.6	35.6	53.3	7.4	.3	.0	12.9	100.0	705
TOT	62	99	1126	1607	248	14	0	12.7		3156
PCT	2.0	3.1	35.7	50.9	7.9	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.1	.0	.2	.2		5.0
NE	.0	.0	.2	.5		6.1
E	.3	.4	.4	.5		5.8
SE	4.9	5.5	15.8	21.5		6.2
S	9.9	4.2	12.9	15.6		5.4
SW	.8	.5	1.0	1.6		5.5
W	.5	.1	.2	.6		4.8
NW	.1	.2	.2	.4		5.7
VAR	.0	.0	.0	.0		.0
CALM	.8	.1	.4	.4		3.7
TOT OBS	320	195	575	749	1839	5.8
TOT PCT	17.4	10.6	31.3	40.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.1	.1	.0	.0	.0	.0	.1	.3	
NE	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	
E	.0	.0	.1	.0	.4	.2	.1	.0	.0	.0	.5	
SE	.3	.0	.3	5.4	13.7	9.1	3.6	.7	.5	.7	13.3	
S	.5	.0	.8	4.3	7.4	9.4	1.6	1.2	.2	.2	17.0	
SW	.0	.0	.1	.3	.9	.7	.4	.0	.0	.1	1.5	
W	.0	.0	.0	.2	.1	.4	.0	.0	.0	.0	.7	
NW	.0	.0	.0	.1	.1	.3	.0	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.2	.1	.1	.0	.0	.1	1.2	
TOT OBS	16	0	23	190	419	373	106	37	14	21	640	1839
TOT PCT	.9	.0	1.3	10.3	22.8	20.3	5.8	2.0	.8	1.1	34.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.6	1.9	1.9	1.9	1.9	1.9	2.0	2.0
= OR >5000	3.3	3.7	3.8	3.8	3.8	3.8	3.9	3.9
= OR >3500	7.2	9.2	9.3	9.3	9.3	9.3	9.4	9.4
= OR >2000	22.4	28.1	29.3	29.4	29.4	29.4	29.4	29.4
= OR >1000	42.2	50.9	52.4	52.4	52.5	52.5	52.5	52.5
= OR >600	50.2	61.2	62.9	62.9	63.0	63.0	63.0	63.0
= OR >300	50.8	62.4	64.2	64.2	64.3	64.3	64.3	64.3
= OR >150	50.8	62.4	64.2	64.2	64.3	64.3	64.3	64.3
= OR >0	50.9	62.7	64.5	64.7	65.1	65.1	65.1	65.1
TOTAL	938	1157	1189	1193	1200	1200	1201	1201

TOTAL NUMBER OF OBS: 1844

PCT FREQ NH <5/8: 34.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
	7.7	7.7	6.0	6.5	6.6	5.6	9.2	14.4	35.5	.7	1951

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1895-1975

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	.0	*	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	NO PCP	.1	.0	.0	.4	.7	.3	.1	.2	.0	*	1.8	
	TOT %	.1	.0	.0	.4	.8	.3	.1	.2	.0	*	1.9	
5<10	PCP	.0	.0	*	.3	.2	.0	.0	.0	.0	.0	.5	
	NO PCP	.1	.1	.3	7.2	10.1	.9	.4	.1	.0	.3	19.5	
	TOT %	.1	.1	.4	7.4	10.3	.9	.4	.1	.0	.3	19.9	
10+	PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.3	*	.8	40.9	30.4	2.6	.8	.4	.0	1.1	77.3	
	TOT %	.3	*	.8	41.0	30.5	2.6	.8	.4	.0	1.1	77.6	
TOT OBS													2066
TOT PCT		.5	.2	1.2	49.0	41.8	3.8	1.3	.8	.0	1.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	4-10	.0	.0	.0	.2	.3	*	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.3	*	*	.0	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.3	*	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.5	*	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	4-10	*	*	.0	*	.1	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	.1	.1	*	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	*	.1	.1	*	*	.0	.2	.5	
	4-10	.1	.0	.0	.1	.5	.1	.1	.2	.0	.0	1.0	
	11-21	.0	.0	.0	.2	.3	*	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.1	.0	.0	.4	1.0	.3	.1	.2	.0	.2	2.2	
5<10	0-3	.0	.0	*	.1	.4	.1	.2	*	.0	.5	1.4	
	4-10	.1	.1	.2	2.2	3.8	.6	.1	.1	.0	.0	7.3	
	11-21	.0	.0	.1	4.1	5.0	.3	.0	.0	.0	.0	9.5	
	22+	.0	.0	.0	1.1	1.4	*	.0	.0	.0	.0	2.6	
	TOT %	.1	.1	.3	7.6	10.5	1.1	.3	.1	.0	.5	20.7	
10+	0-3	*	.0	.1	.3	.3	.2	.1	.0	.0	1.0	2.2	
	4-10	.2	*	.4	10.6	12.2	1.7	.4	.3	.0	.0	25.8	
	11-21	.0	.0	.4	26.2	15.1	.6	.1	.0	.0	.0	42.3	
	22+	.0	.0	.0	3.1	2.1	*	.0	.0	.0	.0	5.2	
	TOT %	.2	*	.8	40.2	29.7	2.5	.7	.4	.0	1.0	75.5	
TOT OBS													2402
TOT PCT		.4	.2	1.2	48.6	42.1	3.9	1.2	.8	.0	1.7	100.0	

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PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1895-1975

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	2.0	.0	1.3	13.4	26.8	20.5	4.3	1.3	.3	1.5	71.4	28.6	395
06009	.8	.0	1.0	11.2	26.3	24.5	6.7	3.3	.6	1.0	75.5	24.5	490
12015	.2	.0	1.1	7.4	16.4	16.6	5.5	1.9	.9	1.5	51.6	48.4	529
18021	.6	.0	1.7	9.7	22.0	18.2	5.7	1.3	1.1	.6	60.9	39.1	473
TOT	16	0	24	193	426	375	106	37	14	22	1213	674	1887
PCT	.8	.0	1.3	10.2	22.6	19.9	5.6	2.0	.7	1.2	64.3	35.7	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	1.9	.3	2.4	21.3	73.4	621
06009	.5	.2	.5	3.3	19.3	76.2	580
12015	.8	.3	.0	1.8	20.2	77.0	660
18021	.3	.2	.5	1.6	22.4	75.0	572
TOT	14	16	8	55	505	1835	2433
PCT	.6	.7	.3	2.3	20.8	75.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	2.1	4.4	20.0	53.3	26.7	390
06009	.8	2.1	16.6	60.2	23.2	483
12015	.2	1.6	10.7	42.4	46.9	514
18021	.4	2.2	13.8	48.6	37.6	457
TOT	15	45	276	939	629	1844
PCT	.8	2.4	15.0	50.9	34.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
75/79	.0	.0	.0	.1	.2	.2	.0	.0	7	.4
70/74	.0	.0	.1	.1	2.1	1.6	.7	.2	82	4.8
65/69	.0	.0	.0	.0	5.4	18.2	18.0	4.1	787	45.6
60/64	.0	.0	.0	.0	1.2	10.0	20.9	10.8	740	42.9
55/59	.0	.0	.0	.0	.0	.0	2.0	4.2	107	6.2
TOTAL	0	0	2	3	153	516	718	332	1724	100.0
PCT	.0	.0	.1	.2	8.9	29.9	41.6	19.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.1	.2	.0	.0	.0	.1	.0	.0
70/74	.0	.0	.2	2.2	1.9	.1	.1	.1	.0	.1
65/69	.2	.1	.4	27.2	14.5	2.1	.7	.2	.0	.2
60/64	.1	.0	.3	20.8	18.8	1.6	.3	.1	.0	.8
55/59	.1	.0	.0	1.5	4.3	.1	.0	.1	.0	.1
TOTAL	.4	.1	1.1	52.0	39.7	3.9	1.1	.6	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	68	67	63	58	57	54	62.5	875
06009	71	69	67	63	58	57	55	63.1	698
12015	82	77	73	66	61	59	58	66.4	889
18021	79	71	68	64	59	57	55	64.7	704
TOT	82	74	70	64	59	57	54	64.1	3166

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	3.9	23.4	45.4	26.8	83	436
06009	.0	.0	7.0	29.8	43.4	19.8	82	429
12015	.0	.4	17.6	40.3	32.8	8.8	77	454
18021	.0	.2	6.7	25.6	45.1	22.3	82	430
TOT	0	5	156	523	727	338	81	1749

PERIOD: (PRIMARY) 1927-1975
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.1	.1	.1	3	.1	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.1	.2	.2	.1	.0	9	.1	.4
11/13	.0	.0	.0	.1	.3	.0	.1	.1	10	.2	.4
9/10	.0	.0	.1	.3	.2	.2	.0	.0	14	.1	.6
7/8	.0	.0	.4	.5	.6	.2	.1	.0	34	.2	1.6
6	.0	.0	.3	.2	.6	.1	.1	.0	24	.1	1.2
5	.0	.2	1.5	.8	.6	.4	.0	.0	65	.2	3.2
4	.0	.2	1.3	2.1	1.1	.1	.0	.0	87	.0	4.6
3	.0	.2	1.5	2.6	1.2	.2	.0	.0	106	.1	5.5
2	.0	1.0	2.8	4.9	.8	.1	.0	.0	178	.2	9.2
1	.0	2.6	5.7	8.1	.8	.0	.0	.0	327	.1	17.2
0	.1	3.0	8.8	9.2	.4	.0	.0	.0	404	.5	20.8
-1	.0	2.7	9.0	7.5	.2	.0	.0	.0	368	.4	19.1
-2	.0	.9	4.1	2.4	.1	.0	.0	.0	143	.2	7.3
-3	.0	.4	1.9	.9	.0	.0	.0	.0	62	.1	3.2
-4	.1	.2	1.2	.4	.0	.0	.0	.0	35	.1	1.7
-5	.0	.0	.4	.2	.0	.0	.0	.0	11	.0	.6
-6	.0	.0	.2	.1	.0	.0	.0	.0	5	.0	.3
-7/-8	.0	.1	.1	.1	.0	.0	.0	.0	4	.0	.2
-9/-10	.0	.1	.1	.1	.0	.0	.0	.0	2	.0	.1
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2		746		130		5		1895	48	1847
PCT	.1	11.6	39.4	40.4	6.9	1.3	.3	.2	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								PCT	NE								PCT
	1-3	4-10	11-21	22-33	34-47	48+				1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.2	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
1-2	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.0	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1

HGT	E								PCT	SE								PCT
	1-3	4-10	11-21	22-33	34-47	48+				1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.5	.0	.0	.0	.0	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	1.0
1-2	.0	.3	.0	.0	.0	.0	.0	.3	.2	6.7	4.0	.0	.0	.0	.0	.0	.0	10.9
3-4	.0	.1	.3	.0	.0	.0	.0	.4	.1	5.2	10.9	.4	.0	.0	.0	.0	.0	16.7
5-6	.0	.0	.1	.0	.0	.0	.0	.1	.0	.8	7.7	1.2	.0	.0	.0	.0	.0	9.7
7	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	3.1	1.3	.0	.0	.0	.0	.0	4.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.6	.0	.0	.0	.0	1.4	.3	13.7	26.8	3.7	.0	.0	.0	.0	.0	44.5

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER

AREA 0016 SKELETON COAST
19.25 9.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	3.3	.1	.0	.0	.0	4.0	.3	.7	.0	.0	.0	.0	1.0
1-2	.3	8.6	2.7	.0	.0	.0	11.7	.*	1.1	.*	.0	.0	.0	1.2
3-4	.0	6.4	8.4	.8	.0	.0	15.6	.0	.4	.2	.0	.0	.0	.6
5-6	.0	.8	5.6	1.0	.0	.0	7.4	.0	.*	.4	.0	.0	.0	.4
7	.0	.3	3.3	.8	.0	.0	4.4	.0	.2	.1	.0	.0	.0	.3
8-9	.0	.2	1.1	.7	.0	.0	2.0	.0	.0	.*	.0	.0	.0	.*
10-11	.0	.2	.7	.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	19.9	21.9	3.5	.0	.0	46.2	.3	2.4	.8	.0	.0	.0	3.4

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.3	.0	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.3	98.1
1-2	.2	.1	.1	.0	.0	.0	.4	.1	.5	.0	.0	.0	.0	.6	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	.7	.1	.0	.0	.0	1.1	.2	.7	.0	.0	.0	.0	.9	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	6.3	.1	.0	.0	.0	9.7	1365
1-2	1.0	17.6	6.7	.0	.0	.0	25.3	
3-4	.1	12.3	19.7	1.2	.0	.0	33.3	
5-6	.0	1.6	13.8	2.2	.0	.0	17.6	
7	.0	.4	6.6	2.1	.0	.0	9.1	
8-9	.0	.2	1.8	1.4	.0	.0	3.4	
10-11	.0	.3	1.0	.1	.0	.0	1.5	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	38.8	49.8	7.1	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	5.3	10.6	5.1	3.4	1.6	1.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	484	4
6-7	.1	.6	4.3	9.4	5.7	2.7	2.3	.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	457	6
8-9	.0	.4	1.9	4.9	6.4	3.5	1.8	1.0	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	352	7
10-11	.0	.5	.8	1.3	1.8	1.3	.6	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	7
12-13	.0	.0	.6	.5	.6	.6	.1	.2	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	47	8
>13	.0	.0	.0	.2	.2	.4	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	8
INDET	1.3	3.1	2.7	2.5	2.0	.7	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	224	4
TOTAL	4.2	16.8	35.5	40.6	34.3	18.3	11.2	5.0	3.0	6	3	2	1	0	0	0	0	0	0	1701	6
PCT	2.5	9.9	20.9	23.9	20.2	10.8	6.6	2.9	1.8	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1893-1975

DECEMBER

AREA 0016 SKELETON COAST
19.25 9.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGD WQ PCPN	FGD WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	.0	.0	.0	94.8
SE	.2	.7	1.0	.0	.0	.0	.0	1.9	1.2	.0	.9	.0	.7	.0	95.2
S	.2	.0	.8	.0	.0	.0	.0	1.0	.4	.0	2.0	.0	2.1	.0	94.5
SW	.0	.0	.4	.0	.0	.0	.0	.4	.4	1.4	.0	.0	.4	.0	97.5
W	.0	.0	5.0	.0	.0	.0	.0	5.0	6.7	.0	.0	.0	.0	.0	88.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21.1	.0	78.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.6	.0	.0	.0	88.4
TOT PCT	.2														
TOT OBS: 2011	.2	.3	.9	.0	.0	.0	.0	1.4	.8	*	1.6	.0	1.3	.0	94.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.4	.4	1.0	.0	.0	.0	.0	1.9	1.2	.2	.6	.0	.6	.0		95.5
06209	.4	.6	1.3	.0	.0	.0	.0	2.3	1.3	.0	3.1	.0	2.9	.0		90.5
12615	.0	.2	.6	.0	.0	.0	.0	.7	.6	.0	.9	.0	.7	.0		97.0
18621	.0	.4	.6	.0	.0	.0	.0	1.0	.2	.0	1.9	.0	.8	.0		96.1
TOT PCT	.2															
TOT OBS:	2032	.4	.9	.0	.0	.0	.0	1.5	.8	*	1.6	.0	1.3	.0		94.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.3	*	.0	.0	.0		.6	5.0	.9	1.2	.3	1.0	.2	1.2	.4	.0	
NE	*	.2	.0	.0	.0	.0		.2	4.9	.4	.2	.7	.0	.1	.0	.0	.0	
E	.1	.4	.3	.0	.0	.0		.8	9.0	.8	.0	1.4	1.0	1.0	.7	.3	.0	
SE	.7	15.0	27.9	1.6	*	.0		45.2	12.8	42.1	43.0	49.2	64.7	45.8	43.0	40.8	55.9	
S	1.7	19.4	19.3	1.9	*	.0		42.4	11.5	46.8	40.1	39.7	28.6	41.7	37.1	47.2	37.2	
SW	.6	4.2	1.3	*	.0	.0		6.2	8.3	5.1	7.7	4.3	2.9	6.2	13.1	7.3	4.2	
W	.5	.8	.2	.0	.0	.0		1.4	6.2	1.5	3.1	.7	.0	1.2	2.0	1.5	2.8	
NW	.2	.7	*	.0	.0	.0		.9	5.7	.9	2.2	.7	.0	.7	1.5	.8	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.3							2.3	.0	1.6	2.4	3.0	1.9	3.2	1.5	1.7	.0	
TOT DBS	190	1250	1495	110	1	0	3046		11.4	630	207	600	104	650	203	580	72	
TOT PCT	6.2	41.0	49.1	3.6	*	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.4	.1	.0	.0	.0	.0	.6	5.0	1.0	.4	.4	.4	
NE	.2	*	.0	.0	.0	.0	.2	4.9	.3	.6	.1	.0	
E	.4	.4	.1	.0	.0	.0	.8	9.0	.6	1.3	1.0	.3	
SE	3.5	31.2	10.3	.2	.0	45.2	12.8		42.3	51.5	45.1	42.4	
S	8.3	26.3	7.4	.4	.0	42.4	11.5		45.1	38.1	40.6	46.1	
SW	2.3	3.6	.3	*	.0	6.2	8.3		5.7	4.0	7.9	6.9	
W	.8	.5	*	.0	.0	1.4	6.2		1.9	.6	1.3	1.6	
NW	.6	.2	.0	.0	.0	.9	5.7		1.2	.6	.8	.7	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	
CALM	2.3					2.3	.0		1.8	2.8	2.8	1.5	
TOT DBS	573	1903	552	18	0	3046		11.4	837	704	853	652	
TOT PCT	18.8	62.5	18.1	.6	.0	100.0			100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1893-1975AREA 0016 SKELETON COAST
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	1.8	4.1	39.4	40.1	4.7	.0	.0	.0	11.8	100.0	837
06609	2.8	5.0	38.1	49.3	4.7	.1	.0	.0	11.5	100.0	704
12615	2.8	3.3	44.0	48.9	2.8	.0	.0	.0	11.1	100.0	853
18621	1.5	3.4	42.5	40.5	2.1	.0	.0	.0	11.5	100.0	652
TOT	69	121	1250	1495	110	1	0	11.4			3046
PCT	2.3	4.0	41.0	49.1	3.6	*	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.1	*	*	.1		4.6
NE	.0	*	.1	.1		6.7
E	.1	.2	.4	.3		5.7
SE	5.2	5.6	16.7	21.1		6.1
S	10.0	4.5	13.4	15.8		5.4
SW	.4	.3	1.1	1.4		6.2
W	.2	.0	.4	.1		5.0
NW	.1	.0	.1	.1		5.2
VAR	.0	.0	.0	.0		.0
CALM	1.0	.1	.7	.5		3.8
TOT OBS	298	189	576	689	1752	5.7
TOT PCT	17.0	10.8	32.9	39.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3999	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	
NE	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	
E	.0	.0	.1	.1	.2	.1	.0	*	.0	.0	.5	
SE	.2	.1	.7	5.0	16.6	7.2	3.2	1.2	.2	.2	13.9	
S	.4	.2	.9	3.8	9.5	7.5	2.2	.4	.3	.4	17.9	
SW	*	.0	.1	.4	.7	.7	*	.1	.0	.1	1.1	
W	.0	.0	.0	.1	.2	.2	.0	.0	.0	*	.3	
NW	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.1	.5	.2	.1	.0	.0	.1	1.3	
TOT OBS	12	4	33	167	487	279	98	31	9	15	617	1752
TOT PCT	.7	.2	1.9	9.5	27.8	15.9	5.6	1.8	.5	.9	35.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >5000	2.4	3.0	3.0	3.0	3.0	3.0	3.0	3.0
* OR >3500	7.2	8.6	8.7	8.7	8.7	8.7	8.7	8.7
* OR >2000	19.3	23.4	24.2	24.2	24.2	24.2	24.2	24.2
* OR >1000	44.7	51.2	52.1	52.4	52.4	52.4	52.4	52.4
* OR >600	52.6	60.8	61.7	62.0	62.0	62.0	62.0	62.0
* OR >300	53.9	62.6	63.6	63.9	63.9	63.9	63.9	63.9
* OR >150	53.9	62.9	63.9	64.1	64.1	64.1	64.1	64.1
* OR >0	54.1	63.2	64.4	64.7	64.8	64.8	64.8	64.8
TOTAL	941	1100	1120	1125	1128	1128	1128	1128

TOTAL NUMBER OF OBS: 1740

PCT FREQ NH <5/8: 35.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	8.1	7.6	6.4	6.6	6.0	5.8	9.1	14.9	35.2	1873

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1893-1975

DECEMBER

AREA 0016 SKELETON COAST
19.25 9.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
1<2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.2	.2
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.3	.3
2<5	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.2	.6	*	.0	.0	.0	.2	1.0	1.0
	TOT %	.0	.0	.0	.3	.6	*	.0	.0	.0	.2	1.1	1.1
5<10	PCP	.0	.0	.0	.4	.2	*	.0	.0	.0	.0	.7	.7
	NO PCP	.1	.0	.2	7.1	9.5	1.0	.2	.1	.0	.9	19.1	19.1
	TOT %	.1	.0	.2	7.6	9.7	1.0	.3	.1	.0	.9	19.8	19.8
10+	PCP	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.2	.1	.8	41.1	31.9	2.4	.5	.2	.0	1.0	78.2	78.2
	TOT %	.2	.1	.8	41.5	32.1	2.4	.5	.2	.0	1.0	78.8	78.8
TOT OBS													
TOT PCT													
		.3	.1	.9	49.6	42.5	3.5	.8	.2	.0	2.2	100.0	1987

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.2	.1	.0	.0	.0	.1	.5	.5
2<5	0-3	.0	.0	.0	*	.1	*	.0	.0	.0	.2	.3	.3
	4-10	.0	.0	.0	.1	.5	.1	.0	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.3	.4	.0	.0	.0	.0	.0	.6	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.4	.9	.1	.0	.0	.0	.2	1.7	1.7
5<10	0-3	.0	*	*	.3	.5	.1	.1	*	.0	.9	1.9	1.9
	4-10	.1	.0	.1	2.6	4.1	.8	.2	*	.0	.7	7.9	7.9
	11-21	.0	.0	.0	4.2	4.6	.4	.0	.0	.0	.9	9.2	9.2
	22+	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	.6
	TOT %	.1	*	.1	7.3	9.5	1.3	.3	.1	.0	.9	19.6	19.6
10+	0-3	.1	.0	*	.3	.8	.3	.1	*	.0	.9	2.6	2.6
	4-10	.1	.2	.3	13.2	13.9	1.9	.4	.1	.0	.3	30.1	30.1
	11-21	.0	.0	.3	27.1	14.9	.4	.0	.0	.0	.0	42.8	42.8
	22+	.0	.0	.0	1.0	1.5	*	.0	.0	.0	.0	2.6	2.6
	TOT %	.2	.2	.7	41.6	31.2	2.6	.4	.1	.0	.9	78.0	78.0
TOT OBS													
TOT PCT													
		.3	.2	.9	49.6	42.0	4.0	.7	.2	.0	2.1	100.0	2347

DECEMBER

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1893-1975AREA 0016 SKELETON COAST
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH 4/8 HGT	TOTAL OBS
00603	1.5	.3	2.3	11.8	26.6	15.0	4.5	1.0	.0	1.3	64.2	35.8	399
06609	.6	.2	2.1	12.7	33.7	16.9	6.6	2.1	.6	1.3	76.9	23.1	472
12615	.2	.2	1.3	5.9	22.4	13.8	4.4	2.7	.8	.2	52.0	48.0	477
18621	.4	.4	1.8	7.4	26.7	16.4	6.5	.9	.7	.7	61.9	38.1	446
TOT	12	5	33	168	491	279	99	31	10	15	1143	651	1794
PCT	.7	.3	1.8	9.4	27.4	15.6	5.5	1.7	.6	.8	63.7	36.3	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	.7	.5	2.3	24.2	72.3	607
06609	.0	.2	.2	2.1	16.9	80.7	579
12615	.0	.0	.5	1.1	19.9	78.6	644
18621	.0	.0	.7	1.5	17.7	80.1	538
TOT	0	5	11	41	468	1843	2368
PCT	.0	.2	.5	1.7	19.8	77.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL OBS
00603	1.6	4.1	17.9	48.7	33.4	386
06609	.7	3.1	18.0	60.0	22.0	455
12615	.2	1.7	8.8	44.5	46.7	467
18621	.5	2.8	12.0	51.4	36.6	432
TOT	12	50	244	891	605	1740
PCT	.7	2.9	14.0	51.2	34.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
75/79	.0	.0	.0	.5	.5	.8	.1	.1	33	1.9
70/74	.0	.0	.0	.5	5.7	9.4	4.2	.9	351	20.7
65/69	.0	.0	.0	.0	3.8	23.5	23.0	7.1	975	57.4
60/64	.0	.0	.0	.0	.0	1.6	9.4	8.0	323	19.0
55/59	.0	.0	.0	.0	.0	.0	.2	.6	14	.8
TOTAL	0	0	0	17	170	601	627	283	1698	100.0
PCT	.0	.0	.0	1.0	10.0	35.4	36.9	16.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.0
.0	.0	*	1.0	.8	*	.0	.0	.0	.0	.1
.0	.0	.2	13.3	5.9	.8	.1	.0	.0	.0	.3
.3	*	.4	33.8	19.7	1.9	.0	.2	.0	.5	
*	.1	.2	5.6	11.8	.9	.1	.1	.0	.3	
.0	.0	.1	.2	.5	.0	.0	.0	.0	.0	
.3	.2	.9	54.1	38.7	3.6	.8	.3	.0	1.2	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	78	71	70	65	60	59	57	65.2	838
06609	79	73	71	66	61	58	57	65.8	705
12615	84	80	76	69	63	61	57	69.1	853
18621	82	75	72	67	62	60	57	66.9	654
TOT	84	77	73	67	61	59	57	66.8	3050

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	4.2	33.4	38.6	23.8	82	425
06609	.0	.2	8.4	35.7	36.8	18.9	81	440
12615	.0	3.1	21.6	38.0	31.0	6.3	76	445
18621	.0	.5	6.7	33.6	41.5	17.8	81	405
TOT	0	17	178	604	632	284	80	1715

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1893-1975

DECEMBER

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.2	3	.0	.2
20/22	.0	.0	.0	.0	.1	.1	.0	1	.0	.1
14/16	.0	.0	.1	.0	.1	.4	.1	11	.0	.6
11/13	.0	.0	.0	.1	.9	.1	.1	22	.1	1.1
9/10	.0	.1	.2	.4	.3	.1	.0	20	.0	1.1
7/8	.0	.1	.5	.5	.6	.2	.0	36	.1	1.9
6	.0	.0	.2	.3	.5	.0	.0	20	.1	1.0
5	.0	.4	.6	1.1	.9	.2	.0	60	.2	3.0
4	.0	.7	.7	1.3	.7	.1	.0	69	.0	3.7
3	.1	.5	1.4	2.4	.5	.0	.0	94	.1	4.9
2	.1	3.5	3.8	3.5	.2	.0	.0	208	.6	10.4
1	.4	3.5	7.5	6.1	.2	.0	.0	332	.1	17.5
0	.9	5.6	12.6	4.7	.2	.0	.0	452	.5	23.5
-1	1.0	3.1	9.7	2.9	.1	.0	.0	314	.0	16.7
-2	.5	1.6	3.9	1.0	.1	.1	.0	134	.0	7.1
-3	.1	.7	2.1	.6	.1	.0	.0	66	.0	3.5
-4	.0	.6	.5	.1	.0	.0	.0	22	.1	1.1
-5	.0	.1	.2	.2	.0	.0	.0	8	.0	.4
-6	.0	.1	.0	.1	.0	.0	.0	3	.0	.2
-7/-8	.1	.2	.0	.1	.0	.0	.0	6	.0	.3
-9/-10	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	57	391	830	475	101	21	7	1882	33	1849
PCT	3.0	20.8	44.1	25.2	5.4	1.1	.4	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.4	.2	1.4	.1	.0	.0	.0	1.7
1-2	.0	.2	.0	.0	.0	.0	.2	.3	6.2	4.8	.0	.0	.0	11.3
3-4	.0	.1	.1	.0	.0	.0	.2	.1	5.4	12.6	.2	.0	.0	18.2
5-6	.0	.0	.1	.0	.0	.0	.1	.1	.8	8.8	.4	.0	.0	10.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.6	.2	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	.3	.0	.0	.0	1.0	.7	14.0	29.4	1.3	.0	.0	45.3

PERIOD: (OVER-ALL) 1963-1975

DECEMBER
TABLE 18 (CONT)AREA 0016 SKELETON COAST
19.25 9.1E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.0	3.5	.2	.0	.0	.0		4.7	.2	.6	.1	.0	.0	.0		.9
1-2	.4	9.4	2.4	.0	.0	.0		12.2	.1	1.8	.2	.0	.0	.0		2.0
3-4	.0	6.1	9.6	.1	.0	.0		15.8	.0	.2	.1	.0	.0	.0		.4
5-6	.1	.7	6.5	.9	.0	.0		8.4	.0	.0	.1	.0	.0	.0		.1
7	.0	.1	2.3	.7	.0	.0		3.0	.0	.0	*	.0	.0	.0		*
8-9	.0	.1	.3	.2	.0	.0		.4	.0	*	.0	.0	.0	.0		*
10-11	.0	.0	.2	.1	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.2	.1	.0		.2	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.1	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.5	20.0	21.4	2.3	.1	.0		45.3	.3	2.6	.5	.0	.0	.0		3.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.1	.0	.0	.0	.0		.1	.1	*	.0	.0	.0	.0		.1	
1-2	.0	.3	.0	.0	.0	.0		.3	.0	.2	.0	.0	.0	.0		.2	
3-4	.0	.4	.0	.0	.0	.0		.4	.1	.0	.0	.0	.0	.0		.1	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	.9	.0	.0	.0	.0		1.0	.2	.2	.0	.0	.0	.0		.3	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	6.1	.4	.0	.0	.0	11.7	
1-2	1.1	18.0	7.3	.0	.0	.0	26.4	
3-4	.2	12.4	22.3	.2	.0	.0	34.9	
5-6	.2	1.5	15.5	1.3	.0	.0	18.6	
7	.0	.2	4.8	.9	.0	.0	6.0	
8-9	.0	.2	.5	.4	.0	.0	1.1	
10-11	.0	.1	.4	.4	.0	.0	.8	
12	.0	.0	.0	.2	.1	.0	.3	
13-16	.0	.1	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	38.4	51.3	3.5	.1	.0	100.0	1320

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.1	4.4	10.9	6.8	3.7	.9	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	454	4
6-7	.0	.2	7.4	9.4	7.4	2.3	1.4	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	465	6
8-9	.0	.6	4.9	5.9	3.9	2.9	1.9	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	335	6
10-11	.0	.3	.9	1.2	1.9	1.2	1.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	7
12-13	.0	.0	.2	.4	.4	.6	.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	8
>13	.0	.0	.0	.5	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
INDET	1.3	1.5	2.7	3.3	1.5	.6	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	180	4
TOTAL	23	112	435	445	309	138	99	27	19	6	1	0	0	0	0	0	0	0	0	0	1614	5
PCT	1.4	6.9	27.0	27.6	19.1	8.6	6.1	1.7	1.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1857-1976

ANNUAL

AREA 0016 SKELETON COAST
19.35 9.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	HAIL	PCPN AT GB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	2.1	.0	.0	.0	.0	2.1	2.1	.2	19.5	.4	4.0	.0	71.7
NE	.7	.0	.3	.0	.0	.0	.0	.9	2.0	.5	20.3	.1	1.3	.0	66.5
E	.7	.4	.8	.0	.0	.0	.0	2.0	.8	.5	3.1	.0	2.2	.0	91.3
SE	.1	.4	.7	.0	.0	.0	*	1.2	.8	.1	1.2	*	.7	*	95.9
S	.2	.2	.7	.0	.0	.0	*	1.0	.4	.3	3.0	.1	1.7	*	93.4
SW	.1	*.8	.0	.0	.0	.0	.0	.9	.8	.5	4.5	.2	2.2	.1	90.8
W	.7	.3	.8	.0	.0	.0	.0	1.8	1.0	.4	9.1	.0	3.4	.0	84.3
NW	.1	.0	1.0	.0	.0	.0	.0	1.0	.9	.0	18.5	1.0	9.1	.0	69.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	1.2	.0	.0	.0	.0	1.5	.8	.3	13.3	.4	4.2	.0	79.5
TOT PCT	.2	.3	.7	.0	.0	.0	*	1.1	.7	.2	2.8	.1	1.4	*	93.7
TOT OBS: 29349															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.3	.4	.8	.0	.0	.0	.0	1.5	.7	.7	2.2	.1	.9	.0	93.9
06009	.3	.3	1.2	.0	.0	.0	.0	1.8	1.0	*	3.9	.1	1.4	.0	91.7
12015	.1	.2	.3	.0	.0	.0	*	.6	.3	.0	3.0	.1	1.8	.1	94.2
18021	.1	.2	.6	.0	.0	.0	.0	.9	.5	.1	2.7	.1	1.5	*	94.3
TOT PCT	.2	.3	.7	.0	.0	.0	*	1.2	.7	.2	3.0	.1	1.4	*	93.5
TOT OBS: 29955															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.3	.6	.1	.0	.0	.0	.9	5.3	1.1	1.6	1.1	.3	.8	.9	.7	.3	
NE	.1	.3	*	*	.0	.0	.4	5.6	.4	1.4	.6	*	.3	.2	.3	.0	
E	.2	.7	.4	*	.0	.0	1.3	8.9	1.3	1.0	1.6	2.1	1.4	1.0	.7	1.3	
SE	.7	13.4	26.2	4.6	.2	*	45.1	14.0	45.0	41.2	47.0	62.6	46.1	38.1	41.9	54.4	
S	1.5	17.3	19.2	3.1	.2	*	41.3	12.3	41.3	40.7	39.2	30.1	41.0	43.9	45.2	36.8	
SW	.6	3.6	1.2	.1	*	.0	5.6	8.4	5.3	8.3	4.2	3.0	5.0	10.7	6.0	4.0	
W	.3	.9	.1	*	.0	.0	1.3	6.1	1.3	1.8	.9	.5	1.3	2.2	1.5	1.4	
NW	.3	.8	.1	*	.0	.0	1.1	5.7	1.3	1.9	1.1	.2	1.0	1.9	1.0	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.0						3.0		3.1	3.1	4.3	1.0	3.1	1.2	2.7	1.1	
TOT OBS							41971		12.2	8655	2612	8403	1138	9295	2655	8102	1111
TOT PCT	7.0	37.6	47.2	7.8	.4	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.7	.2	*	.0	.0		.9	5.3	1.2	1.0	.8	.7
NE	.3	.1	*	.0	.0		.4	5.6	.4	.5	.3	.2
E	.5	.6	.1	*	.0		1.3	8.9	1.2	1.7	1.3	.8
SE	4.4	25.7	13.7	1.2	*		45.1	14.0	44.1	48.9	44.3	43.4
S	7.3	24.0	9.2	.8	*		41.3	12.3	41.2	38.1	41.6	44.1
SW	2.4	2.8	.4	*	.0		5.6	8.4	6.0	4.1	6.3	5.7
W	.8	.5	*	.0	.0		1.3	6.1	1.4	.8	1.5	1.5
NW	.8	.3	*	.0	.0		1.1	5.7	1.4	1.0	1.2	.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	3.1	3.9	2.7	2.6
TOT OBS					41971			12.2	11267	9541	11950	9213
TOT PCT	20.2	54.3	23.4	2.0	*		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1926-1976
(COVER-ALL) 1857-1976

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AREA 0016 SKELETON COAST
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.1	4.0	37.8	46.7	8.0	.4	*	12.2	100.0	11267
06009	3.9	4.1	36.8	47.0	7.8	.3	*	12.1	100.0	9541
12015	3.7	4.3	38.3	46.7	7.9	.4	.0	12.2	100.0	11950
18021	2.6	3.5	37.4	48.7	7.5	.4	.0	12.4	100.0	9213
TOT										
PCT	3.0	3.9	37.6	47.2	7.8	.4	*	12.2	100.0	41971

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	*	.1	.3	5.1	5.4
NE	.1	*	.1	.1	5.4	5.7
E	.3	.1	.5	.5	5.9	5.2
SE	6.5	5.7	17.3	20.2	5.9	5.0
S	9.6	4.3	10.6	15.1	5.2	5.0
SW	1.0	.4	.9	1.2	4.0	5.2
W	.3	.1	.3	.3	5.0	4.9
NW	.2	*	.2	.3	5.2	5.6
VAR	.0	.0	.0	.0	.0	
CALM	.9	.2	.7	1.3	4.9	
TOT OBS					25386	
TOT PCT	19.1	10.9	30.6	39.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH < 5/8 ANY HGT	TOTAL OBS
N	.1	*	*	.1	.1	.1	*	*	.0	*	.2	
NE	.1	*	*	.1	.1	*	.0	*	.0	*	.1	
E	.3	*	*	.1	.4	.2	.1	*	*	*	.5	
SE	.2	.1	.6	5.3	15.3	8.9	2.9	.8	.3	.3	14.9	
S	.4	.1	.7	4.0	8.6	6.8	1.6	.6	.3	.3	16.2	
SW	.1	*	.1	.3	.7	.5	.2	*	*	*	.5	
W	*	*	*	.1	.2	.2	*	*	*	*	.3	
NW	.1	*	*	.1	.2	.1	*	*	*	*	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	*	.1	.2	.5	.5	.1	*	.1	.1	1.4	
TOT OBS												25386
TOT PCT	1.1	.2	1.4	10.4	26.0	17.3	5.0	1.6	.6	.8	35.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50YD	> 0
> 6500	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
> 5000	2.3	2.9	3.0	3.0	3.0	3.0	3.0	3.0
> 3500	6.4	7.8	7.9	7.9	8.0	8.0	8.0	8.0
> 2000	20.0	24.5	25.2	25.2	25.2	25.2	25.2	25.2
> 1000	41.9	50.0	51.1	51.2	51.2	51.3	51.3	51.3
> 600	49.5	60.0	61.5	61.6	61.6	61.6	61.7	61.7
> 300	50.3	61.3	62.9	63.0	63.0	63.1	63.1	63.1
> 150	50.4	61.4	63.0	63.2	63.2	63.3	63.3	63.3
> 0	50.4	61.6	63.4	63.6	63.7	64.0	64.3	64.3

TOTAL NUMBER OF OBS: 25578

PCT FREQ NH < 5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.4	5.6	6.1	6.3	5.9	5.7	8.8	14.2	35.2	.9	27219

PERIOD: (PRIMARY) 1926-1976
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	.0	.0	.0	*	*	.0	.0	*	.0	*	*	
	NO PCP	.1	*	*	.1	.2	*	*	.1	.0	.1	.6	
	TOT %	.1	*	*	.1	.2	*	*	.1	.0	.1	.6	
1/2<1	PCP	.0	.0	.0	*	*	*	.0	.0	.0	*	*	
	NO PCP	*	.0	.0	.1	.1	*	*	*	.0	*	.2	
	TOT %	*	.0	.0	.1	.1	*	*	*	.0	*	.2	
1<2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	*	.1	.1	*	*	*	.0	*	.3	
	TOT %	*	*	*	.2	.1	*	*	*	.0	*	.4	
2<5	PCP	*	*	*	.1	.1	*	*	*	.0	*	.2	
	NO PCP	.1	*	*	.4	.9	.1	.1	.1	.0	.2	2.0	
	TOT %	.1	*	*	.5	1.0	.1	.1	.1	.0	.3	2.2	
5<10	PCP	*	.0	*	.3	.7	*	*	*	.0	*	.5	
	NO PCP	.2	.1	.2	7.3	9.1	.9	.3	.2	.0	.9	19.2	
	TOT %	.2	.1	.2	7.6	9.3	.9	.3	.2	.0	.9	19.7	
10+	PCP	.0	.0	*	.2	.1	*	*	*	.0	*	.4	
	NO PCP	.3	.2	1.1	41.0	28.9	2.4	.6	.4	.0	1.6	76.5	
	TOT %	.3	.2	1.1	41.2	29.0	2.4	.6	.4	.0	1.6	76.9	
TOT OBS													29177
TOT PCT		.7	.3	1.4	49.6	39.8	3.5	1.0	.8	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	*	*	*	*	*	.0	.1	.2	
	4-10	.1	*	*	.1	.2	*	*	*	.0		.4	
	11-21	.0	.0	*	*	*	*	.0	*	.0		.1	
	22+	.0	.0	.0	*	*	*	.0	.0	.0		*	
	TOT %	.1	*	*	.1	.2	*	*	.1	.0	.1	.7	
1/2<1	0-3	.0	.0	*	*	*	*	.0	.0	.0	*	*	
	4-10	*	*	*	*	.1	*	*	*	.0		.1	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	*	.1	.1	*	*	*	.0	*	.3	
1<2	0-3	*	*	*	*	*	.0	*	*	.0	*	.1	
	4-10	*	*	*	.1	.1	*	*	*	.0	.3		
	11-21	*	*	.0	.1	.1	*	*	.0	.0	.1		
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	*		
	TOT %	*	*	*	.2	.2	*	*	*	.0	*	.5	
2<5	0-3	*	*	*	*	.1	*	*	*	.0	.3	.5	
	4-10	.1	*	*	.2	.6	.1	*	.1	.0	1.1		
	11-21	*	.0	*	.2	.5	*	*	*	.0	.7		
	22+	.0	.0	*	*	.1	*	.0	.0	.0	2.1		
	TOT %	.1	*	*	.5	1.2	.2	.1	.1	.0	.3	2.5	
5<10	0-3	*	*	*	.2	.4	.1	.1	.1	.0	.9	1.9	
	4-10	.1	.1	.1	2.3	3.9	.6	.2	.2	.0	7.5		
	11-21	*	*	*	4.0	4.2	.2	*	*	.0	8.4		
	22+	.0	*	*	1.0	.7	*	.0	.0	.0	1.7		
	TOT %	.2	.1	.2	7.4	9.2	1.0	.3	.2	.0	.9	19.5	
10+	0-3	.1	*	.1	.4	.7	.3	.1	.1	.0	1.6	3.4	
	4-10	.2	.1	.6	11.6	11.9	1.8	.4	.3	.0	26.9		
	11-21	*	*	.4	25.1	14.2	.4	*	*	.0	40.3		
	22+	.0	.0	*	3.9	2.0	*	.0	*	.0	6.0		
	TOT %	.3	.2	1.1	41.1	28.9	2.5	.6	.3	.0	1.6	76.6	
TOT OBS													32841
TOT PCT		.6	.3	1.3	49.4	39.9	3.7	1.0	.8	.0	3.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	1.7	.2	1.4	10.1	25.8	15.9	3.9	1.0	.5	.9	61.3	38.7	5699
06609	1.3	.3	1.7	11.9	29.3	19.6	5.6	2.3	.8	.9	73.6	26.4	6846
12615	.7	.1	1.3	8.9	22.0	16.1	5.1	1.7	.7	.7	57.9	42.1	7175
18621	.7	.2	1.4	10.0	24.7	16.4	5.0	1.1	.6	.8	60.6	39.4	6466
TOT PCT	1.1	.2	1.4	10.2	25.6	17.0	4.9	1.5	.6	.8	63.4	36.6	26186 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.7	.4	.5	2.9	20.7	74.8	6362
06609	1.1	.2	.6	2.8	19.1	76.1	8187
12615	.6	.3	.6	1.9	18.9	77.8	9122
18621	.6	.2	.3	2.6	19.7	76.6	7781
TOT PCT	.8	.3	.5	2.5	19.6	76.3	33452 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	1.7	3.5	15.8	47.8	36.4	5529
06609	1.3	3.5	17.5	57.4	25.1	6713
12615	.7	2.3	12.7	46.6	40.7	7032
18621	.7	2.3	14.3	47.9	37.9	6304
TOT PCT	1.1	2.9	15.0	50.0	35.0	25578 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	*	.0	.0	.0	.0	.0		*
85/89	.0	*	.0	*	*	.0	.0	.0		*
80/84	.0	.0	*	*	.1	.1	*	.0		*
75/79	.0	.0	*	.2	.7	1.1	.4	.1		.2
70/74	.0	*	*	.4	3.6	9.1	6.2	1.7		2.6
65/69	.0	.0	*	.4	3.8	11.1	12.2	4.6		21.0
60/64	.0	.0	.0	.1	2.1	9.9	14.0	6.7		32.0
55/59	.0	.0	.0	.0	.1	.7	5.1	5.0		10.8
50/54	.0	.0	.0	.0	.0	*	*	.3		.4
TOTAL PCT	.0	*	.1	1.1	10.4	32.0	37.9	18.4	23376	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.0	.0	.0	*	*	.0	.0	.0	.0	.0
.0	.0	*	.1	.1	*	.0	.0	.0	.0
*	*	.1	1.6	.7	.1	*	*	.0	*
*	*	.5	13.8	5.7	.5	.1	*	.0	.3
.1	*	.4	17.4	11.9	1.3	.3	.2	.0	.5
.1	.1	.3	17.0	12.8	1.4	.3	.2	.0	.7
.3	.1	.1	3.8	5.5	.3	.1	.2	.0	.5
*	*	.0	.2	.1	*	*	*	.0	*
.5	.2	1.4	53.9	36.9	3.5	.9	.6	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	90	70	69	64	58	56	45	63.6	11421
06609	86	71	69	65	58	56	48	64.0	9670
12615	92	77	73	67	60	58	48	67.0	11933
18621	86	72	70	65	59	57	48	64.8	9300
TOT	92	74	71	65	59	56	45	64.9	42324

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.6	6.2	27.6	40.9	24.7	83	5926
06609	.0	.9	8.5	30.5	38.7	21.4	82	5852
12615	.0	2.6	18.3	37.7	31.7	9.6	77	6211
18621	.0	.8	8.1	31.2	40.4	19.5	81	5794
TOT	0	296	2450	7544	9019	4474	81	23783

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	5	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	17	*	.1
17/19	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	28	*	.1
14/16	.0	.0	.0	.0	*	*	*	.1	.1	*	*	*	86	*	.3
11/13	.0	.0	.0	.0	*	*	.2	.2	.1	*	*	*	171	.1	.5
9/10	.0	.0	.0	*	*	.1	.3	.2	.1	*	*	.0	199	.1	.7
7/8	.0	.0	.0	*	.2	.4	.4	.3	.1	*	*	.0	411	.1	1.4
6	.0	.0	.0	*	.1	.3	.3	.1	.1	*	.0	.0	259	*	.9
5	.0	.0	*	.1	.5	.7	.5	.4	.2	*	.0	.0	627	.1	2.2
4	.0	.0	*	.2	1.1	1.0	.6	.3	.1	.0	.0	.0	925	.1	3.3
3	.0	.0	*	.3	1.0	1.1	.9	.6	.1	*	*	.0	1081	.1	3.9
2	.0	.0	*	1.3	2.4	2.1	1.3	.7	.1	*	.0	.0	2134	.2	7.5
1	.0	.0	.2	1.5	3.4	3.3	2.4	1.0	*	*	.0	.0	3194	.2	11.7
0	.0	.0	.5	3.5	6.3	4.7	3.8	1.0	*	.0	.0	.0	5387	.5	19.3
-1	.0	.0	.6	3.0	5.6	4.4	3.9	.7	*	.0	.0	.0	5024	.4	18.0
-2	.0	*	.6	2.0	3.8	2.9	2.2	.3	*	.0	.0	.0	3247	.3	11.5
-3	.0	.0	.6	1.1	2.2	1.7	1.2	.1	.0	.0	.0	.0	1912	.2	6.7
-4	.0	*	.4	.7	1.0	.9	.6	.1	*	.0	.0	.0	1162	.2	4.0
-5	.0	*	.2	.5	.9	.6	.4	*	.0	.0	.0	.0	733	.1	2.5
-6	.0	.0	*	.2	.4	.3	.1	*	.0	.0	.0	.0	297	*	1.0
-7/-8	.0	*	.1	.2	.3	.3	.1	*	.0	.0	.0	.0	259	*	.9
-9/-10	.0	*	*	.1	.1	.1	*	*	.0	.0	.0	.0	95	*	.3
-11/-13	*	*	*	*	*	*	*	*	.0	.0	.0	.0	42	.0	.1
-14/-16	.0	*	*	*	*	*	*	.0	.0	.0	.0	.0	9	*	*
-17/-19	*	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	6	.0	*
TOTAL													27310		
PCT	*	.1	3.4	14.7	30.3	25.1	19.1	6.2	1.0	.2	.1	*	100.0	3.1	96.9

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	*	.0	.0	.0	.3		.1	.1	.0	.0	.0	.0	.2	
1-2	*	.3	*	.0	.0	.0	.3		*	.1	*	.0	.0	.0	.1	
3-4	.0	*	*	.0	.0	.0	.1		.0	*	*	.0	.0	.0	*	
5-6	.0	*	*	.0	.0	.0	*		.0	*	*	*	.0	.0	*	
7	.0	*	.0	.0	.0	.0	*		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.5	.1	.0	.0	.0	.7		.1	.2	*	*	.0	.0	.3	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	*	.0	.0	.0	.3		.3	1.6	.1	.0	.0	.0	2.0	
1-2	*	.4	*	.0	.0	.0	.4		.2	6.7	3.5	.0	.0	.0	10.4	
3-4	*	.1	.2	*	.0	.0	.4		*	4.3	10.4	.4	.0	.0	15.1	
5-6	*	*	.1	*	.0	.0	.2		*	.9	9.1	1.1	*	.0	11.2	
7	.0	.0	*	*	.0	.0	*		*	.2	3.9	1.3	*	.0	5.3	
8-9	.0	.0	.0	*	.0	.0	*		.0	.1	1.1	.8	*	.0	2.0	
10-11	.0	.0	*	*	.0	.0	*		.0	*	.4	.6	.1	.0	1.1	
12	.0	*	.0	.0	.0	.0	*		.0	*	.1	.2	*	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	*	*	.2	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	*	*	*	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	*	.0	*	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.7	.5	*	.0	.0	1.4		.5	13.8	28.5	4.6	.2	.0	47.7	

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	2.8	.1	.0	.0	.0	3.4	.2	.5	*	.0	.0	.0	.8	
1-2	.3	8.9	2.8	.0	.0	.0	12.0	.1	1.4	.1	.0	.0	.0	1.6	
3-4	*	4.4	7.8	.4	.0	.0	12.6	*	.3	.2	*	.0	.0	.5	
5-6	*	.9	5.5	.7	.0	.0	7.2	*	*	.1	*	.0	.0	.2	
7	*	.2	2.6	.8	.5	.0	3.6	.0	*	*	*	.0	.0	.1	
8-9	.0	.1	.8	.5	*	.0	1.4	.0	*	*	*	.0	.0	*	
10-11	.0	.1	.3	.3	*	.0	.7	.0	.0	*	*	.0	.0	*	
12	.0	*	.1	.1	*	.0	.2	.0	.0	*	*	.0	.0	*	
13-16	.0	*	.1	.1	*	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	*	*	*	.0	.0	*	.0	*	.0	.0	.0	.0	*	
20-22	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	17.4	20.0	2.9	.1	.0	41.3	.4	2.2	.5	*	.0	.0	3.2	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.2	.0	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	.3	
1-2	.1	.3	*	.0	.0	.0	.4	*	.2	*	.0	.0	.0	.3	
3-4	.0	.1	*	.0	.0	.0	.1	*	*	*	.0	.0	.0	.1	
5-6	.0	*	*	.0	.0	.0	*	.0	*	*	*	.0	.0	*	
7	.0	.0	*	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.6	.1	.0	.0	.0	.9	.1	.5	*	*	.0	.0	.6	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	5.9	.2	.0	.0	.0	12.0	
1-2	1.0	18.0	6.4	.0	.0	.0	25.4	
3-4	.1	9.2	18.5	.8	.0	.0	28.7	
5-6	.1	2.0	14.8	1.9	*	.0	18.7	
7	*	.4	6.4	2.0	*	.0	8.9	
8-9	*	.2	1.9	1.3	*	.0	3.4	
10-11	.0	.1	.8	.9	.1	.0	1.9	
12	.0	*	.1	.3	*	.0	.5	
13-16	.0	*	.1	.3	.1	.0	.5	
17-19	.0	*	*	*	*	.0	*	
20-22	.0	.0	*	.0	*	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.1	35.9	49.3	7.5	.3	.0	100.0	19939

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD [SEC]	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.6	4.9	7.7	5.4	3.0	1.1	.7	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5643	4
6-7	*	.8	4.5	7.9	6.4	3.5	2.2	.8	.6	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	6425	6
8-9	.0	.3	2.1	4.4	5.3	4.0	2.6	1.0	.9	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	4966	7
10-11	.0	.3	.8	1.3	1.9	1.5	1.2	.6	.6	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	1978	8
12-13	.0	.0	.8	.6	.6	.5	.5	.3	.3	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	899	8
>13	.0	.0	.0	.4	.4	.3	.2	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	398	8
INDET	3.0	2.6	3.1	2.7	1.8	.8	.5	.2	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	3588	4
TOTAL																					23897	6
PCT	3.6	8.9	19.0	22.6	19.4	11.8	8.0	3.1	2.7	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1976
(OVER-ALL) 1857-1976

TABLE 20

AREA 0016 SKELETON COAST
19.35 9.4E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
83/84	.0	.1	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	5	*
81/82	.1	.1	.1	.1	*	*	.0	.0	.0	.0	.0	.0	13	*
79/80	.1	.3	.9	.2	.1	.2	.0	.0	.0	.0	.0	.2	63	.2
77/78	.3	1.3	1.6	1.0	.1	.2	.0	.0	.0	.0	*	.1	162	.4
75/76	1.5	4.8	5.6	3.5	.7	.3	.0	.0	.0	.1	.1	.2	569	1.4
73/74	7.9	17.1	17.7	11.8	3.2	.6	.2	.0	.0	.1	.2	.8	2026	5.1
71/72	18.3	22.1	20.3	22.9	10.4	1.6	.5	.0	.1	.3	.2	4.5	3373	8.5
69/70	18.7	14.1	13.7	15.5	18.8	8.8	1.6	.3	.1	.5	2.0	14.1	3534	8.9
67/68	14.2	15.6	13.3	12.4	18.0	18.5	5.9	1.3	1.1	1.2	10.3	24.5	4394	11.0
65/66	13.2	10.6	9.5	8.4	11.8	15.7	18.6	7.2	4.2	7.7	22.7	21.2	4899	12.3
63/64	16.5	11.0	10.3	13.0	12.9	16.4	20.8	23.6	23.8	28.9	27.6	16.8	7342	18.4
61/62	5.9	2.3	6.2	7.9	10.5	13.7	14.3	17.5	22.8	24.1	14.9	11.3	5053	12.7
59/60	3.2	.5	.5	1.9	10.3	14.8	17.6	17.4	18.1	19.1	12.2	5.2	4049	10.2
57/58	.2	.1	.1	1.0	2.5	7.1	14.9	19.2	18.5	13.4	7.7	.7	2907	7.3
55/56	*	*	*	.1	.4	1.9	5.2	11.7	9.2	4.3	1.5	.1	1199	5.0
53/54	.0	*	.0	.1	.2	.2	.5	1.5	1.2	.4	.5	.1	161	.4
51/52	.0	.0	.0	.1	.1	*	.0	.2	.3	.1	*	.0	28	.1
49/50	.0	.0	.0	.0	.1	.0	.0	.1	.5	.0	.0	.0	24	.1
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	3283	3243	3793	3133	3356	3136	3468	3662	3399	3476	2948	2906	39803	100.0
MEAN	67.7	69.4	69.3	68.3	66.0	63.8	61.8	60.3	60.3	61.3	63.1	65.7	64.7	

TABLE 21

PRESSURE (MB)

AVRAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1012	1014	1014	1014	1012	1013	1013	1013	2829
FEB	1014	1012	1013	1013	1013	1012	1012	1014	1013	2856
MAR	1014	1012	1013	1014	1013	1011	1012	1013	1013	3251
APR	1014	1013	1014	1016	1014	1013	1014	1015	1014	2618
MAY	1016	1014	1016	1017	1016	1014	1015	1016	1016	2810
JUN	1018	1017	1018	1019	1018	1016	1018	1018	1018	2745
JUL	1019	1018	1019	1020	1019	1017	1018	1019	1019	2860
AUG	1018	1017	1018	1019	1018	1016	1018	1019	1018	3150
SEP	1017	1016	1018	1018	1017	1015	1017	1018	1017	2924
OCT	1016	1015	1016	1017	1016	1015	1015	1017	1016	3002
NOV	1015	1014	1015	1016	1015	1013	1014	1016	1015	2494
DEC	1014	1013	1014	1015	1014	1012	1013	1014	1014	2457
ANN	1016	1014	1016	1017	1016	1014	1015	1016	1015	33996
OBS	7322	1336	7488	726	7878	1358	7183	705		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1005	1008	1009	1012	1013	1015	1017	1021	1025
FEB	1004	1008	1010	1012	1013	1014	1017	1021	1024
MAR	1003	1007	1009	1011	1013	1014	1017	1022	1026
APR	1002	1008	1010	1013	1014	1016	1018	1020	1025
MAY	1003	1009	1011	1014	1016	1017	1020	1025	1029
JUN	1005	1009	1013	1016	1018	1019	1022	1027	1030
JUL	1008	1012	1014	1017	1019	1020	1022	1024	1030
AUG	1010	1012	1014	1016	1018	1020	1022	1023	1028
SEP	1008	1012	1014	1016	1017	1019	1021	1023	1027
OCT	1006	1009	1012	1015	1016	1017	1020	1021	1024
NOV	1007	1010	1011	1013	1015	1016	1018	1020	1023
DEC	1006	1009	1010	1012	1014	1015	1018	1020	1024

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1856-1976

JANUARY

AREA 0017 WALVIS BAY SW
25.55 11.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT CG TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA	
N	.0	.0	3.1	.0	.0	.0	.0	3.1	.0	.0	14.6	.0	7.3	.0	75.0	
NE	.0	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	3.6	.0	3.6	.0	89.3	
E	.0	.0	8.9	.0	.0	.0	.0	8.9	.0	.0	.0	.0	2.2	.0	88.9	
SE	.5	.2	1.0	.0	.0	.0	*	1.6	.6	.2	.8	.2	1.1	*	95.5	
S	.2	*	1.1	.0	.0	.0	*	1.4	.6	.4	2.8	.1	1.7	.2	92.9	
SW	.0	.0	.7	.0	.0	.0	.0	.7	.5	.0	4.2	.5	.6	.0	93.4	
W	.0	.0	3.2	.0	.0	.0	.0	3.2	3.2	.0	15.1	.0	.0	.0	78.6	
NW	.0	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	12.3	.0	11.0	.0	75.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	3.1	.0	.0	.0	.0	3.1	1.6	.0	26.6	4.7	7.8	.0	56.3	
TOT PCT	.3	.1	1.1	.0	.0	.0	*	1.5	.6	.3	2.5	.2	1.5	.1	93.2	
TOT OBS:	4586															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT CG TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
00003	.4	.0	1.7	.0	.0	.0	.1	2.0	1.1	1.1	2.0	.3	.8	.0	92.7
06009	.6	.3	2.0	.0	.0	.0	.0	2.9	.6	.1	4.3	.2	1.6	.1	90.3
12015	.0	.1	.6	.0	.0	.0	.0	.0	.3	.0	2.8	.3	2.8	.1	92.9
18021	.3	.0	.3	.0	.0	.0	.0	.0	.3	.0	1.8	.0	1.3	.2	95.7
TOT PCT	.3	.1	1.2	.0	.0	.0	*	1.5	.6	.3	2.8	.2	1.7	.1	92.9
TOT OBS:	4685														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.6	.1	.0	.0	.0		.9	5.9	.6	2.3	1.4	.0	.9	.7	.5	.0	
NE	.2	.2	*	.0	.0	.0		.3	5.2	.3	1.2	.3	.0	.4	.2	.1	.0	
E	.2	.3	.2	.0	.0	.0		.6	7.2	.8	1.3	.8	.0	.7	.2	.2	.0	
SE	.5	6.2	22.5	8.7	.5	.0		38.4	17.0	36.3	35.9	44.7	57.8	41.9	30.2	33.5	22.8	
S	1.0	14.0	26.6	7.7	.5	.0		49.9	15.0	52.6	48.3	44.9	37.8	46.1	51.3	55.4	70.8	
SW	.5	3.6	2.0	.3	*	.0		6.4	10.2	6.0	7.3	4.4	1.5	5.9	13.2	7.0	5.1	
W	.2	.7	.1	*	.0	.0		1.0	6.1	1.0	1.0	.4	.0	1.1	2.2	1.2	.0	
NW	.2	.6	.1	*	.0	.0		.9	6.8	.5	1.3	.5	.0	1.4	1.4	1.0	1.3	
VAR	1.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6							1.6	.0	1.8	1.4	2.6	3.0	1.5	.5	1.1	.0	
TOT OBS	298	1701	3353	1085	70	0	6507		14.9	1355	434	1356	100	1368	429	1387	78	
TOT PCT	4.6	26.1	51.5	16.7	1.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.6	.3	.0	.0	.0		.9	5.9	1.0	1.3	.8	.4	
NE	.2	.1	*	.0	.0		.3	5.2	.5	.3	.3	.1	
E	.4	.2	.1	.0	.0		.6	7.2	1.0	.7	.6	.2	
SE	1.9	15.8	18.1	2.6	*		38.4	17.0	36.2	45.6	39.1	32.9	
S	5.1	24.4	17.8	2.6	.1		49.9	15.0	51.6	44.4	47.4	56.3	
SW	2.0	3.4	.9	.1	.0		6.4	10.2	6.3	4.2	7.7	6.9	
W	.6	.4	*	.0	.0		1.0	6.1	1.0	.3	1.4	1.2	
NW	.5	.3	*	.0	.0		.9	6.8	.7	.5	1.4	1.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.6						1.6	.0	1.7	2.6	1.3	1.0	
TOT OBS	840	2914	2403	344	6	6507		14.9	1789	1456	1797	1465	
TOT PCT	12.9	44.8	36.9	5.3	.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1856-1976

JANUARY

AREA 0017 WALVIS BAY SW
25.55 11.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.7	3.0	26.5	51.3	16.3	1.3	.0	14.8	100.0	1789
0600	2.6	3.1	25.9	51.0	16.2	1.2	.0	14.8	100.0	1456
1200	1.3	3.1	27.8	50.1	16.9	.9	.0	14.7	100.0	1797
1800	1.0	2.6	24.0	54.1	17.4	1.0	.0	15.3	100.0	1465
TOT	106	192	1701	3353	1085	70	0	14.9		6507
PCT	1.6	3.0	26.1	51.5	16.7	1.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS'D	TOTAL OBS	MEAN CLOUD COVER
N	.2	*	.1	.2		4.8
NE	*	.0	*	.1		7.3
E	.1	.1	.1	.1		4.9
SE	8.8	6.6	15.4	10.4		5.1
S	17.9	7.6	13.8	11.7		4.2
SW	2.0	.5	.9	.9		3.8
W	.3	.1	.1	.1		3.4
NW	.2	.1	.1	.1		4.0
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	.1	.6		4.7
TOT OBS	1160	587	1183	936	3866	4.6
TOT PCT	30.0	15.2	30.6	24.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 TOTAL OBS
N	*	.0	.0	.1	.1	*	*	.0	*	.0	.3
NE	*	*	.0	*	*	.0	*	.0	.0	.0	*
E	.0	*	*	*	.1	.1	*	.0	.0	.0	.2
SE	.1	.2	.6	3.3	11.1	5.0	2.3	.3	.2	.1	18.0
S	.6	.5	.9	2.7	10.7	5.1	1.9	.2	.2	.2	28.2
SW	*	*	.1	.2	.6	.5	.2	*	.0	.0	2.7
W	.0	.0	*	*	.1	.0	*	.0	.0	*	.5
NW	*	.0	.0	*	*	.1	*	.0	*	*	.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	*	.1	.2	.1	*	.0	.1	.0	.7
TOT OBS	37	27	64	247	882	418	176	23	17	15	1960
TOT PCT	1.0	.7	1.7	6.4	22.8	10.8	4.6	.6	.4	.4	50.7

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	.8	.8	.8	.8	.8	.8	.8
>5000	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>3500	4.8	5.8	5.9	5.9	5.9	5.9	5.9	5.9
>2000	14.1	16.2	16.8	16.8	16.9	16.9	16.9	16.9
>1000	32.8	37.9	39.1	39.1	39.2	39.3	39.3	39.3
>600	37.5	44.0	45.4	45.5	45.5	45.7	45.7	45.7
>300	38.2	45.5	47.0	47.1	47.2	47.3	47.3	47.3
>150	38.2	45.8	47.5	47.7	47.8	48.0	48.0	48.0
>0	38.3	46.1	48.1	48.3	48.4	49.0	49.1	49.2
TOTAL	1510	1818	1897	1904	1908	1932	1937	1939

TOTAL NUMBER OF OBS: 3942

PCT FREQ NH <5/8: 50.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS'D	TOTAL OBS
14.6	11.3	8.9	8.0	7.2	5.7	9.7	12.1	21.4	1.0	4168

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1896-1976

JANUARY

AREA 0017 WALVIS BAY SW
25.95 11.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	.0	.1	.3	*	.1	*	.0	.2	.8	
	TOT %	*	*	.0	.1	.3	*	.1	*	.0	.2	.8	
1/2<1	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	.2	.2	*	.0	.0	.0	.0	*	.4
	TOT %	*	.0	.0	.2	.2	*	.0	.0	.0	.0	*	.4
1<2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.1	.2	*	.0	.0	.0	.0	*	.5
	TOT %	.0	.0	*	.2	.2	*	.0	.0	.0	.0	*	.5
2<5	PCP	*	.0	.0	.1	.2	*	*	*	.0	*	.4	
	NO PCP	*	.0	.0	.3	1.5	.1	*	.1	.0	.1	2.3	
	TOT %	*	.0	.0	.4	1.7	.2	.1	.1	.0	.2	2.7	
5<10	PCP	.0	*	*	.3	.4	*	.0	.0	.0	.0	.7	
	NO PCP	.2	*	.1	5.5	9.5	.6	.1	.1	.0	.3	16.4	
	TOT %	.2	*	.1	5.8	9.8	.6	.1	.1	.0	.3	17.1	
10+	PCP	.0	.0	*	.2	.1	*	.0	.0	.0	.0	.3	
	NO PCP	.2	.1	.3	34.7	38.1	3.5	.4	.2	.0	.7	78.3	
	TOT %	.2	.1	.3	34.9	38.2	3.5	.4	.2	.0	.7	78.6	
TOT OBS		.5	.1	.5	41.6	50.4	4.4	.7	.4	.0	1.4	100.0	4580
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	*	.1	*	*	.0	.0	.2	.3	
	4-10	*	.0	.0	.1	.2	*	*	.0	.0	.0	.3	
	11-21	.0	.0	.0	*	.1	.0	.0	*	.0	.0	.1	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.0	.1	.3	.1	.1	*	.0	.2	.8	
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	*	.1	*	.0	*	.0	.0	.2	
	11-21	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	.2	.2	*	.0	*	.0	*	.4	
1<2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	*	.1	*	.0	*	.0	.0	.2	
	11-21	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.2	.2	.1	.0	*	.0	*	.5	
2<5	0-3	.0	*	.0	*	.1	.0	*	.0	.0	.2	.3	
	4-10	*	.0	.0	.1	.7	.2	.1	*	.0	.0	1.2	
	11-21	*	.0	.0	.3	.9	.1	.0	*	.0	.0	1.3	
	22+	.0	.0	.0	*	.2	*	.0	.0	.0	.0	.2	
	TOT %	.1	*	.0	.5	1.8	.3	.1	.1	.0	.2	3.0	
5<10	0-3	*	.0	*	.1	.2	*	*	.0	.0	.2	.7	
	4-10	.1	*	*	.7	2.6	.5	.1	.1	.0	.0	4.1	
	11-21	*	.0	.1	3.3	5.1	.2	*	.0	.0	.0	8.7	
	22+	.0	.0	.0	1.8	1.7	.0	.0	.0	.0	.0	3.4	
	TOT %	.2	*	.1	5.8	9.5	.7	.1	.1	.0	.2	16.8	
10+	0-3	.0	*	.1	.4	.5	.3	.1	.1	.0	.6	2.1	
	4-10	.2	*	.1	5.3	10.2	2.0	.4	.1	.0	.0	18.3	
	11-21	*	*	.1	20.6	21.9	1.2	*	*	.0	.0	44.1	
	22+	.0	.0	.0	7.8	6.0	.1	*	*	.0	.0	14.0	
	TOT %	.2	.1	.4	34.1	38.6	3.7	.5	.2	.0	.6	78.5	
TOT OBS													5211
TOT PCT		.5	.1	.5	40.9	50.7	4.8	.8	.4	.0	1.3	100.0	

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1856-1976

JANUARY

AREA 0017 WALVIS BAY SW
25.55 11.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1499	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.2	.8	1.0	7.2	26.1	11.5	4.1	.5	.3	.7	53.9	46.1	888
06009	1.8	1.2	2.0	9.4	27.1	13.1	5.0	1.1	.5	.2	61.4	38.6	1030
12015	1.0	.5	1.8	4.0	18.5	8.5	4.2	.6	.0	.5	40.2	59.8	1084
18021	.5	.3	1.2	4.5	17.6	10.1	4.4	.2	.2	.2	39.0	61.0	1033
TOT	46	27	60	250	894	433	178	74	17	15	1950	2085	4035
PCT	1.1	.7	1.6	6.2	22.2	10.7	4.4	.6	.4	.4	48.3	51.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	.4	.4	2.5	18.1	78.1	1360
06009	2.2	.6	.7	4.8	16.8	74.9	1282
12015	.6	.4	.6	2.8	16.9	78.8	1412
18021	.6	.2	.3	2.7	15.3	81.0	1259
TOT	51	20	27	168	893	4154	5313
PCT	1.0	.4	.5	3.2	16.8	78.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ NH < 5/8 AND 5+	TOTAL OBS
00003	1.3	3.9	12.5	43.2	864
06009	1.9	6.0	18.6	45.3	1013
12015	1.0	3.5	9.3	32.3	1055
18021	.5	2.3	9.1	31.9	1010
TOT	46	155	486	1495	1961
PCT	1.2	3.9	12.3	37.9	49.7

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	*	.1	*	.0	.0	6	.1
75/79	.0	.0	.0	.2	.6	.7	.1	.0	68	1.7
70/74	.0	.0	*	.3	3.9	9.4	9.1	2.6	1014	25.3
65/69	.0	.0	*	.2	4.3	17.4	26.3	10.2	2342	58.5
60/64	.0	.0	.0	*	.1	.7	4.2	7.3	495	12.4
55/59	.0	.0	.0	.0	.0	.1	.5	1.4	80	2.0
TOTAL	0	0	2	29	366	1138	1611	859	4005	100.0
PCT	.0	.0	*	.7	9.1	28.4	40.2	21.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	*	*	*	.0	.0	.0
*	.0	.0	.8	.7	.1	.0	.0	.0	*
.1	*	.2	12.1	11.2	1.2	.2	.1	.0	.1
.2	*	.1	26.5	28.8	2.1	.3	.2	.0	.3
.2	*	.1	1.8	8.8	.7	.2	.1	.0	.6
.1	*	.0	.2	1.4	.1	.0	*	.0	.2
.5	.2	.4	41.4	50.9	4.2	.7	.4	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	72	70	67	59	56	52	65.7	1776
06009	80	73	71	68	59	57	52	66.6	1455
12015	83	78	75	70	62	59	56	69.4	1798
18021	83	73	71	68	61	58	54	67.3	1468
TOT	83	76	73	68	60	57	52	67.3	6497

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.1	5.0	23.4	39.8	31.7	84	1002
06009	.0	.9	8.6	26.7	40.2	23.6	82	992
12015	.0	1.9	16.6	37.3	32.9	11.3	78	1063
18021	.0	.2	5.6	25.0	48.1	21.1	83	1020
TOT	0	32	368	1151	1639	887	82	4077

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1856-1976

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AREA 0017 MALVIS BAY SW
25.55 11.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	*	.0	.0	*	2	.0	*
17/19	.0	.0	.0	.0	*	*	.0	*	.0	4	.0	.1
14/16	.0	.0	.0	.0	.1	*	*	*	.0	11	.0	.3
11/13	.0	.0	.0	.3	*	.2	.2	.1	*	36	*	.8
9/10	.0	.0	.2	.3	.1	.2	.3	.2	*	56	.1	1.3
7/8	.0	.0	.2	.4	.4	.6	.6	.2	.0	97	.2	2.1
6	.0	.0	.2	.2	.3	.5	.5	.1	.0	73	.1	1.7
5	.0	.0	.3	.8	.8	.8	.8	.2	*	153	.1	3.5
4	.0	.0	.3	.6	.7	1.3	.7	*	.0	152	.3	3.4
3	.0	*	.3	1.4	1.7	3.9	.7	*	.0	338	.2	7.9
2	.0	*	.5	1.7	3.9	6.5	.5	.0	.0	945	.4	12.7
1	.0	*	.3	2.0	6.4	8.8	.5	.0	.0	751	.3	17.8
0	.0	*	.4	1.6	10.8	8.5	.1	*	.0	889	.3	21.0
-1	.0	.0	.2	1.2	8.5	4.2	*	.0	.0	587	.3	13.8
-2	.0	.0	.2	.7	3.9	1.1	*	.0	.0	244	.2	5.7
-3	.0	.0	.1	.4	1.5	.8	*	.0	.0	116	.1	2.7
-4	.0	.0	*	.4	.7	.2	.0	.0	.0	54	.1	1.2
-5	.0	.0	.1	*	.4	.1	.0	.0	.0	27	*	.6
-6	.0	.0	.0	.0	.1	.1	.0	.0	.0	6	.0	.1
-7/-8	.0	.0	.0	*	.2	*	.0	.0	.0	11	.0	.3
-9/-10	.0	.0	*	*	.0	.0	.0	.0	.0	4	.0	.1
-11/-13	*	*	*	.0	.0	.0	.0	.0	.0	4	*	.1
TOTAL	2	5	146	499	1572	205	40	4160	113	4047		
PCT	*	.1	3.5	12.0	40.5	37.8	4.9	1.0	.1	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.1	.0	.0	.0	.0	.1	*	*	.0	.0	.0	.0	*
1-2	.0	.2	*	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	*	.0	.0	.0	*	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.1	.0	.0	.0	.5	*	*	*	.0	.0	.0	.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.1	.0	.0	.0	.0	.2	.1	.4	.1	.0	.0	.0	.6
1-2	*	.1	.0	.0	.0	.0	.1	.1	2.4	1.8	.0	.0	.0	4.4
3-4	*	*	*	.0	.0	.0	.1	*	1.8	6.9	.6	.0	.0	9.3
5-6	.0	*	*	.0	.0	.0	.1	*	.4	8.4	1.9	*	.0	10.7
7	.0	.0	.1	.0	.0	.0	.1	.0	.2	4.4	2.9	.1	.0	7.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	.2	.0	3.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.5	.1	.0	1.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.1	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.3	.1	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.2	.1	.0	.0	.0	.5	.3	5.2	23.4	9.5	.6	.0	38.9

PERIOD: (OVER-ALL) 1963-1976

JANUARY

AREA 0017 WALVIS BAY SW
25.55 11.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	1.6	.1	.0	.0	.0	2.1	.1	.2	*	.0	.0	.0	.4	
1-2	.2	7.8	3.9	.0	.0	.0	11.8	.2	1.6	.3	.0	.0	.0	2.1	
3-4	.1	4.3	8.6	.6	.0	.0	13.7	*	.6	.5	*	.0	.0	1.1	
5-6	.0	.9	9.2	1.4	.1	.0	11.6	.0	*	.2	.0	.0	.0	.2	
7	.0	.2	4.9	2.2	.1	.0	7.4	.0	*	*	.1	.0	.0	.1	
8-9	.0	.1	1.4	1.5	.1	.0	3.1	.0	*	*	.0	*	.0	.1	
10-11	.0	*	.7	1.4	.2	.0	2.2	.0	.0	*	.0	.0	.0	*	
12	.0	.0	.2	.4	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	*	.1	.4	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	14.9	29.1	7.9	.7	.0	53.3	.3	2.5	1.1	.1	*	.0	4.0	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.1	.0	.0	.0	.0	.2	*	*	.0	.0	.0	.0	*		
1-2	.0	.3	.1	.0	.0	.0	.3	*	.2	.1	.0	.0	.0	.3		
3-4	.0	.1	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*		
7	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.1	.4	.1	.0	.0	.0	.6	.1	.3	.1	*	.0	.0	.5		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	7.5	.2	.0	.0	.0	5.9	
1-2	.7	12.5	6.2	.0	.0	.0	19.3	
3-4	.1	6.8	16.0	1.2	.0	.0	24.2	
5-6	*	1.4	17.7	3.3	.1	.0	22.5	
7	.0	.5	9.3	5.1	.2	.0	15.0	
8-9	.0	.1	2.8	3.1	.3	.0	6.3	
10-11	.0	*	.9	2.8	.2	.0	4.0	
12	.0	.0	.3	1.1	.1	.0	1.5	
13-16	.0	*	.1	.7	.3	.0	1.1	
17-19	.0	.0	.0	*	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	*	
26-32	.0	.0	.0	*	.0	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	23.8	53.5	17.3	1.3	.0	100.0	2973

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	2.3	4.6	4.3	4.0	2.1	1.2	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	698
6-7	.0	.6	3.0	5.4	7.8	5.4	3.6	1.7	1.6	.3	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	1053
8-9	.0	.3	1.2	3.3	4.9	4.3	3.2	2.5	1.6	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	785
10-11	.0	1.1	.5	1.3	2.1	2.1	1.9	.7	.9	.3	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	396
12-13	.0	.0	1.3	.4	.8	.3	.5	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	153
>13	.0	.0	.0	.9	.4	.5	.1	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	86
HEIGHT	.6	1.0	1.6	2.1	2.3	1.2	1.0	.6	.6	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	389
TOTAL	24	187	433	630	791	565	410	224	202	53	21	10	6	0	0	0	0	0	0	0	3560
PCT	.6	5.3	12.2	17.7	22.2	15.9	11.5	6.3	5.7	1.5	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1861-1976AREA 0017 WALVIS BAY SW
29.55 11.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35.5	.0	12.9	.0	51.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	83.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	.0	.0	.0	89.1
SE	.4	.7	.6	.0	.0	.0	.0	1.6	1.0	.1	1.0	.1	.6	.1	95.6
S	*	.3	.4	.0	.0	.0	.0	.8	.7	.4	3.2	.1	1.9	*	92.9
SW	.0	1.0	1.3	.0	.0	.0	.0	2.3	.7	.3	5.3	1.2	1.6	.6	88.0
W	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	15.0	.0	11.7	.0	70.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.1	.0	.0	.0	83.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.8	.0	.0	.0	.0	1.8	.0	.0	29.1	3.6	1.8	.0	63.6
TOT PCT	.2	.5	.5	.0	.0	.0	.0	1.2	.9	.3	2.8	.2	1.3	.1	93.3
TOT OBS:	4283														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	.2	.7	1.2	.0	.0	.0	.0	2.1	.9	.8	2.5	.0	.3	.3	93.1
06009	.3	.7	.7	.0	.0	.0	.0	1.6	1.0	.1	3.9	.2	1.2	.0	91.6
12015	.3	.5	.2	.0	.0	.0	.0	.8	.6	.0	3.5	.2	2.6	.0	92.3
18021	.1	.3	.3	.0	.0	.0	.0	.6	.5	.2	2.1	.3	1.4	.1	94.9
TOT PCT	.2	.5	.5	.0	.0	.0	.0	1.3	.8	.3	3.0	.2	1.4	.1	93.0
TOT OBS:	4354														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.3	*	.0	.0	.0		.5	4.9		.8	1.1	.6	.0	.6	.3	.4	.0
NE	.1	.1	*	*	.0	.0		.2	5.2		.2	.3	.4	.3	.1	.1	.2	.0
E	.1	.2	.1	*	.0	.0		.4	8.8		.5	.8	.5	.9	.5	.1	.2	.0
SE	.4	7.7	24.2	8.9	.6	*		41.8	16.6		40.7	37.9	48.1	52.5	46.1	32.6	36.4	38.7
S	1.0	13.5	25.5	7.0	*	*		47.6	14.7		48.0	49.9	44.0	43.8	43.8	47.8	53.0	57.4
SW	.5	3.9	1.6	.3	.0	.0		6.2	9.3		6.2	8.5	3.6	.0	5.3	13.3	7.5	1.5
W	.1	.8	.1	*	.0	.0		1.0	7.7		1.1	.1	.4	.0	1.7	2.8	.7	.0
NW	.2	.4	.1	.0	.0	.0		.7	6.0		.6	.4	.3	.0	.9	1.9	.9	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		2.1	1.0	2.2	2.5	1.3	1.0	.8	2.4
TOT OBS	250	1603	3068	961	66	1	5949		14.7		1210	396	1248	81	1240	390	1300	84
TOT PCT	4.2	26.9	51.6	16.2	1.1	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.5	.1	*	.0	.0			.6	4.9		.9	.5	.5	.3
NE	.2	*	*	.0	.0			.2	5.2		.2	.4	.1	.1
E	.2	.1	*	.0	.0			.4	8.8		.6	.5	.4	.1
SE	2.4	18.7	18.1	2.6	.1			41.8	16.6		40.0	48.3	42.9	36.5
S	5.2	24.3	15.7	2.3	.1			47.6	14.7		48.4	44.0	44.7	53.3
SW	2.3	3.1	.7	*	.0			6.2	9.3		6.7	3.4	7.2	7.1
W	.4	.5	*	.0	.0			1.0	7.7		.8	.3	1.9	.6
NW	.5	.2	*	.0	.0			.7	6.0		.5	.3	1.1	.8
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.5							1.5	.0		1.8	2.3	1.2	.9
TOT OBS	786	2798	2062	294	9	5949			14.7		1606	1329	1630	1384
TOT PCT	13.2	47.0	34.7	4.9	.2			100.0			100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1861-1976AREA 0017 WALVIS BAY SW
25.55 11.88

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.8	2.7	26.7	51.0	17.0	.9	.0	14.6	100.0	1606
06009	2.3	2.3	26.1	52.1	16.2	1.1	.0	14.8	100.0	1329
12015	1.2	3.1	28.8	49.8	15.6	1.5	.0	14.6	100.0	1630
18021	.9	2.5	25.9	53.9	15.8	.9	.1	14.9	100.0	1384
TOT	92	158	1603	3068	961	66	1	14.7		5949
PCT	1.5	2.7	26.9	51.6	16.2	1.1	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN COVER
N	*	.0	*	.1		6.0
NE	*	.0	.1	*		5.7
E	.1	.0	.1	.1		5.6
SE	7.6	8.0	19.0	11.8		5.3
S	14.3	6.5	14.6	11.7		4.6
SW	1.6	.4	.8	.9		4.0
W	.2	.2	.1	.2		4.5
NW	.1	*	.1	.1		5.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.1	.2	.5		4.2
TOT OBS	886	550	1268	920	3624	4.9
TOT PCT	24.4	15.2	35.0	25.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HIT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
NE	*	.0	.0	*	*	.0	.0	.0	.0	.0	*	
E	*	.0	*	*	*	.0	.0	.0	.0	.0	.1	
SE	.2	.1	.6	4.2	12.6	6.6	1.8	1.0	.2	.5	18.8	
S	.8	.1	.8	3.6	9.3	5.4	1.5	.6	.5	.3	24.0	
SW	.1	.0	*	.3	.5	.2	.2	.1	.0	.0	2.3	
W	*	.0	.0	.1	.1	.0	.0	*	.0	*	.4	
NW	*	.0	.0	*	.1	.1	.0	.0	.0	*	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.1	.1	.1	.1	*	.0	*	.0	.6	
TOT OBS	54	6	56	304	826	446	127	62	28	30	1685	3624
TOT PCT	1.5	.2	1.5	8.4	22.8	12.3	3.5	1.7	.8	.8	46.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

	VSBY (NM)							
CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6
= OR >5000	2.7	3.2	3.3	3.3	3.3	3.3	3.3	3.3
= OR >3500	5.6	6.7	6.8	6.8	6.8	6.8	6.8	6.8
= OR >2000	16.1	18.8	19.0	19.0	19.0	19.0	19.0	19.0
= OR >1000	35.2	40.7	41.7	41.7	41.7	41.7	41.7	41.7
= OR >600	41.9	48.9	49.9	50.0	50.0	50.1	50.1	50.1
= OR >300	42.6	50.0	51.4	51.5	51.5	51.6	51.6	51.6
= OR >150	42.6	50.1	51.5	51.6	51.6	51.7	51.7	51.7
= OR >0	42.8	50.4	51.9	52.0	52.0	52.9	53.3	53.4
TOTAL	1569	1847	1904	1909	1909	1942	1956	1958

TOTAL NUMBER OF OBS: 3668

PCT FREQ NH <5/8: 46.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
	11.8	8.2	8.4	8.8	8.7	6.7	10.0	14.2	21.8	1.4	3894

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1861-1976

FEBRUARY

AREA 0017 WALVIS BAY SW
25.55 11.8E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	.1	.7	.1	.0	*	.0	.2	1.1	
	TOT %	*	.0	.0	.1	.7	.1	.0	*	.0	.2	1.2	
1/2<1	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.1	.1	*	*	.0	.0	.1	.3	
	TOT %	.0	.0	.0	.1	.1	*	*	.0	.0	.1	.3	
1<2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.1	.1	*	*	.0	.0	*	.3	
	TOT %	.0	.0	.0	.1	.1	*	*	.0	.0	*	.3	
2<5	PCP	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	*	*	.4	1.7	*	*	*	.0	*	2.5	
	TOT %	*	*	*	.6	1.7	*	*	*	.0	*	2.5	
5<10	PCP	.0	.0	.0	.4	.2	.1	.0	.0	.0	*	.7	
	NO PCP	.1	*	.1	6.8	10.1	1.0	.2	.1	.0	.4	18.7	
	TOT %	.1	*	.1	7.2	10.3	1.1	.2	.1	.0	.4	19.4	
10+	PCP	.0	.0	.0	.3	.1	*	.0	.0	.0	.0	.4	
	NO PCP	*	*	.2	37.8	33.9	2.8	.4	.2	.0	.5	75.8	
	TOT %	*	*	.2	38.0	34.0	2.8	.4	.2	.0	.5	76.2	
TOT OBS													4280
TOT PCT		.2	.1	.3	46.1	46.9	4.1	.7	.4	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	*	.1	.0	.0	.0	.0	.2	.3	
	4-10	.0	.0	.0	.1	.5	.1	.0	*	.0		.7	
	11-21	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.0	.0	.1	.7	.1	.0	*	.0	.2	1.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	*	.1	*	*	.0	.0		.1	
	11-21	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	*	*	.0	.0	.1	.3	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.1	*	*	.0	.0		.2	
	11-21	.0	.0	.0	.1	.1	*	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.2	.1	*	.0	.0	.1	.5	
2<5	0-3	*	*	.0	*	.1	*	.0	.0	.0	*	.2	
	4-10	*	*	*	.2	.5	*	*	*	.0		.7	
	11-21	.0	*	*	.3	.8	*	.0	.0	.0		1.2	
	22+	.0	.0	.0	.1	.3	.0	.0	.0	.0		.3	
	TOT %	*	*	*	.6	1.7	*	*	*	.0	*	2.5	
5<10	0-3	*	.0	*	.1	.2	.1	*	*	.0	.4	1.0	
	4-10	.1	*	.1	1.5	2.3	.8	.2	*	.0		4.9	
	11-21	*	*	.0	3.6	5.2	.2	*	*	.0		9.1	
	22+	.0	.0	.0	1.7	1.9	.0	.0	.0	.0		3.6	
	TOT %	.1	*	.1	6.9	9.6	1.1	.2	.1	.0	.4	18.5	
10+	0-3	.0	*	.1	.2	.4	.2	.1	.1	.0	.5	1.5	
	4-10	*	*	.1	6.3	9.9	2.1	.3	.1	.0		19.0	
	11-21	.0	.0	.1	22.4	19.8	.7	*	.0	.0		43.0	
	22+	.0	*	*	8.1	5.2	.1	.0	.0	.0		13.5	
	TOT %	*	.1	.3	37.1	35.2	3.2	.4	.2	.0	.5	77.0	
TOT OBS													4919
TOT PCT		.2	.1	.4	44.9	47.6	4.5	.7	.4	.0	1.4	100.0	

AD-A032 604

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO), WEST AF--ETC(U)
NOV 76

F/G 4/2

UNCLASSIFIED

2 OF 6
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100%

NL

FEBRUARY

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1861-1976

AREA 0017 WALVIS BAY SW
25.55 11.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.5	.0	1.7	8.0	23.7	12.6	3.6	2.3	.5	.4	54.1	45.9	841
06009	2.2	.4	2.1	11.8	27.7	12.0	4.7	1.9	.8	.6	64.3	35.7	978
12015	1.6	.1	.8	5.5	17.1	12.6	2.1	1.3	.7	1.4	43.1	56.9	948
18021	1.0	.1	1.4	7.5	20.8	10.9	3.4	1.2	.9	.8	48.1	51.9	990
TOT	60	6	57	308	838	450	130	62	28	30	1969	1788	3757
PCT	1.6	.2	1.5	8.2	22.3	12.0	3.5	1.7	.7	.8	52.4	47.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	.2	.5	1.9	19.3	77.0	1283
06009	2.0	.5	.6	2.8	17.9	76.2	1188
12015	1.2	.4	.7	2.5	19.0	76.3	1318
18021	.7	.2	.2	3.0	18.0	77.9	1202
TOT	63	16	25	127	926	3834	4991
PCT	1.3	.3	.5	2.5	18.6	76.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.6	3.4	12.7	43.7	43.6	814
06009	2.4	5.0	18.4	47.2	34.4	962
12015	1.6	2.6	10.5	34.7	54.9	926
18021	1.0	2.7	12.5	37.6	49.9	966
TOT	61	126	498	1494	1676	3668
PCT	1.7	3.4	13.6	40.7	45.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	*	*	*	.0	.0	.0	.0	3	.1
80/84	.0	.0	.0	.1	.1	.1	*	.0	7	.2
75/79	.0	.0	*	.2	1.0	1.0	.2	*	93	2.4
70/74	.0	.0	.0	.5	5.5	12.9	11.3	4.0	1304	34.2
65/69	.0	.0	.0	.3	3.2	14.8	22.7	8.2	1874	49.2
60/64	.0	.0	.0	.0	*	.6	3.9	7.3	449	11.8
55/59	.0	.0	.0	.0	.0	.2	.5	1.4	80	2.1
TOTAL	0	1	2	44	373	1120	1469	801	3810	100.0
PCT	.0	*	.1	1.2	9.8	29.4	38.6	21.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	*	.0	.0	.0	.0	.0
.0	.0	.0	.2	*	.0	.0	.0	.0	.0
.0	.0	.0	1.3	.9	.2	.0	.0	.0	*
*	*	.1	18.4	13.7	1.5	.2	.1	.0	.1
.1	*	.1	24.7	21.9	1.5	.2	.2	.0	.4
.1	.1	*	2.0	8.2	.6	.2	.1	.0	.6
*	*	*	.2	1.6	*	*	*	.0	.1
.2	.1	.3	46.9	46.5	3.9	.7	.3	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	72	71	68	59	56	55	66.5	1615
06009	79	74	72	68	59	57	55	67.2	1343
12015	85	80	76	70	61	58	56	69.0	1619
18021	85	75	72	69	61	58	57	68.0	1385
TOT	85	77	73	68	60	57	52	67.9	5962

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	5.3	24.3	40.5	29.4	84	995
06009	.0	1.1	8.8	29.0	38.7	22.5	82	944
12015	.0	2.6	18.4	36.3	29.0	13.7	78	986
18021	.0	.8	6.3	27.0	45.9	20.0	82	944
TOT	0	48	376	1129	1487	829	81	3869

FEBRUARY

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1861-1976

TABLE 17

AREA 0017 WALVIS BAY SW
29.55 11.8EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
20/22	.0	.0	.0	*	*	.0	.0	.1	.0	4	*	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.0	3	.0	.1
14/16	.0	.0	.0	.1	*	*	*	.1	*	9	.0	.2
11/13	.0	.1	.2	.1	.1	*	.1	.0	*	23	.1	.5
9/10	.0	.2	.4	.3	.4	.2	.2	.1	*	53	.1	1.3
7/8	.0	.3	.2	.3	.3	.4	.1	.0	.0	70	.2	1.8
6	.0	.5	.5	.9	.7	.9	.1	.0	.0	144	.2	3.5
5	.0	.3	1.0	1.3	1.4	1.0	*	.0	.0	195	.2	4.6
4	.0	.2	1.3	1.5	2.0	1.5	*	.0	.0	257	.2	6.3
3	.0	.5	1.8	2.0	5.3	.9	*	.0	.0	415	.3	10.3
2	.0	.5	1.6	4.1	9.3	.9	.1	.0	.0	643	.4	16.0
1	.0	.4	1.2	6.3	11.9	.6	*	.0	.0	797	.3	20.1
0	.0	.3	.6	7.3	7.7	.2	.0	.0	.0	626	.3	15.7
-1	.0	.1	.6	4.0	2.8	.1	.0	.0	.0	294	.2	7.3
-2	.0	.2	.3	1.8	1.5	*	*	.0	.0	151	.1	3.8
-3	.0	.1	.3	.8	.6	.1	.0	.0	.0	70	.1	1.7
-4	.0	.1	.4	.5	.2	.0	.0	.0	.0	48	.1	1.2
-5	.0	.0	.1	.2	.1	*	.0	.0	.0	14	*	.3
-6	.0	*	.1	.2	.1	*	.0	.0	.0	18	.0	.5
-7/-8	.0	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
-9/-10	.0	.0	.0	*	.0	.0	.0	.0	.0	2	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2	142	438	1249	1747	275	43	7	3	3906	105	3801
PCT	.1	3.6	11.2	32.0	44.7	7.0	1.1	.2	.1	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*
1-2	.0	.1	*	.0	.0	.0	.1	.0	*	*	.0	.0	.0	.1
3-4	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	*	.0	.0	.0	.2	.0	*	*	*	.0	.0	.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	.0	.0	.0	.0	.1	.1	.3	.1	.0	.0	.0	.4
1-2	.0	.1	*	.0	.0	.0	.1	.1	3.5	1.6	.0	.0	.0	5.2
3-4	*	*	.0	.0	.0	.0	.1	.1	1.9	8.6	.7	.0	.0	11.3
5-6	.0	.0	*	.0	.0	.0	*	*	9.5	2.6	.0	.0	.0	12.5
7	.0	.0	.0	.0	.0	.0	.0	.0	2	5.5	2.5	.1	.0	8.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.3	2.2	.1	.0	3.7
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.1	.5	1.4	.2	*	2.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	*	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.4	*	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.1	.1	.0	.0	.3	.3	6.6	27.1	10.4	.7	*	45.1

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0017 WALVIS BAY SW
25.55 11.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	1.3	.0	.0	.0	.0		1.7	.1	.3	.0	.0	.0	.0		.4
1-2	.2	6.9	3.1	.0	.0	.0		10.1	.1	1.3	.1	.0	.0	.0		1.6
3-4	*	3.3	8.6	.4	.0	.0		12.4	*	.3	.4	.0	.0	.0		.7
5-6	.1	.7	8.6	1.2	.0	.0		10.6	.0	*	.2	.0	.0	.0		.2
7	.0	.3	4.6	1.4	.1	.0		5.4	.0	*	.1	.0	.0	.0		.1
8-9	.0	.1	1.7	1.9	.1	.0		3.8	.0	*	.0	.0	.0	.0		*
10-11	.0	*	1.1	.9	.2	*		2.2	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.2	.3	*	.0		.5	.0	*	.0	.0	.0	.0		*
13-16	.0	.0	.2	.5	*	.0		.7	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	*	*	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	12.5	28.1	6.9	.5	*		48.7	.2	2.1	.7	*	.0	.0		3.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	*	.1	.0	.0	.0	.0		.1	.1	.1	.0	.0	.0	.0		.2	
1-2	.1	.2	*	.0	.0	.0		.3	.0	*	.0	.0	.0	.0		*	
3-4	.0	.1	*	.0	.0	.0		.2	.0	*	.0	.0	.0	.0		*	
5-6	.0	.0	*	.0	.0	.0		*	.0	*	.0	.0	.0	.0		*	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	.4	.1	.0	.0	.0		.6	.1	.2	.0	.0	.0	.0		.3	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.1	2.2	.1	.0	.0	.0	5.3	
1-2	.6	12.1	4.9	.0	.0	.0	17.6	
3-4	.2	5.7	17.4	1.2	.0	.0	24.5	
5-6	.1	1.2	18.2	3.8	.0	.0	23.2	
7	*	.4	10.0	3.9	.2	.0	14.6	
8-9	.0	.1	3.0	4.1	.2	.0	7.4	
10-11	.0	.1	1.5	2.3	.4	*	4.4	
12	.0	.1	.3	.6	*	.0	1.0	
13-16	.0	*	.2	.9	.1	.0	1.2	
17-19	.0	.1	.0	.3	.1	.0	.5	
20-22	.0	.0	.0	.0	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.0	22.0	55.6	17.1	1.2	*	100.0	2767

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	2.8	5.1	5.3	4.1	1.9	1.1	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	729	5
6-7	*	1.1	3.5	7.1	6.9	5.5	4.0	1.7	1.6	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	1072	7
8-9	.0	.6	1.4	2.3	3.9	4.2	3.7	1.9	2.3	.4	.4	.2	.1	.0	.0	.0	.0	.0	.0	304	9
10-11	.0	.4	.4	.8	1.8	1.5	1.7	.9	.8	.6	.1	.0	.1	.0	.0	.0	.0	.0	.0	142	8
12-13	.0	.0	.8	.8	.6	.7	.4	.1	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	52	11
>13	.0	.0	.0	.1	.3	.1	.2	.3	.1	*	.1	*	.1	.0	.0	.0	.0	.0	.0	323	6
INDET	.6	1.0	2.1	1.4	2.2	1.3	.5	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3336	7
TOTAL	35	198	443	596	664	507	385	194	204	63	30	9	8	0	0	0	0	0	0	100.0	
PCT	1.0	5.9	13.3	17.9	19.9	15.2	11.5	5.8	6.1	1.9	.9	.3	.2	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1856-1976

MARCH

AREA 0017 WALVIS BAY SW
29.95 11.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 6H TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71.1	.0	5.3	.0	23.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	16.0	.0	20.0	.0	.0	.0	64.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.9	.0	3.0	.0	82.2
SE	.2	.6	.5	.0	.0	.0	.0	1.2	.6	.2	.9	.1	1.4	.1	95.6
S	.2	.2	.4	.0	.0	.0	.0	.8	.6	.7	3.6	.1	2.2	*	91.9
SW	.0	.8	.7	.0	.0	.0	.0	1.6	.6	.4	7.5	1.1	3.1	1.1	84.6
W	.0	.0	3.5	.0	.0	.0	.0	3.5	.0	1.8	17.7	.0	.0	.0	77.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	20.3	.0	.0	.0	69.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	2.0	.0	.0	.0	.0	.0	3.9	2.0	.0	27.5	.0	2.0	.0	64.7
TOT PCT	.2		.4	.0	.0	.0	.0	1.1	.6	.4	3.2	.1	1.8	.1	92.6
TOT OBS:	5007														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DKZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NIG SIG WEA
00003	.2	.7	.8	.0	.0	.0	.0	1.7	.5	1.2	3.6	.2	1.1	.1	91.7	
06009	.2	.5	.4	.0	.0	.0	.0	1.1	1.3	.2	3.4	.3	1.1	.1	92.6	
12015	.1	.3	.3	.0	.0	.0	.0	.7	.3	.2	3.0	.1	3.0	.2	92.5	
18021	.2	.2	.2	.0	.0	.0	.0	.7	.3	.2	3.0	.1	2.2	.0	93.5	
TOT PCT	.2	.4	.4	.0	.0	.0	.0	1.0	.6	.4	3.2	.2	1.9	.1	92.6	
TOT OBS:	5102															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21
N	.1	.5	.1	.0	.0	.0		.6	6.2	.6	1.6	.5	.0	.6	1.1	.4	.0	
NE	.1	.1	*	.0	.0	.0		.3	4.5	.1	.7	.4	.0	.5	.1	.0	.0	
E	.1	.3	.1	*	.0	.0		.6	9.3	.7	1.6	.6	.4	.6	.2	.3	.0	
SE	.5	7.7	24.3	10.8	1.0	*		44.4	17.5	43.4	40.0	47.8	47.8	49.1	34.4	41.5	43.6	
S	1.0	13.2	23.2	7.4	.5	*		45.4	14.9	45.7	45.4	44.6	48.7	40.7	51.0	48.5	48.9	
SW	.4	3.4	1.7	.1	*	.0		5.6	9.4	5.4	7.0	3.5	3.1	5.5	9.4	6.5	7.5	
W	.2	.6	.1	*	.0	.0		.9	6.9	1.0	1.1	.5	.0	.8	1.9	1.2	.0	
NW	.2	.4	.1	.0	.0	.0		.7	5.8	.6	.1	.6	.0	1.2	.7	.5	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5							1.5	.0	2.4	2.6	1.5	.0	.9	1.2	1.2	.0	
TOT OBS	283	1821	3433	1275	109	3	6924		15.3	1441	460	1414	113	1494	427	1462	113	
TOT PCT	4.1	26.3	49.6	18.4	1.6	*			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.4	.2	.0	.0	.0	.0	.6	6.2	.9	.5	.7	.4
NE	.2	*	.0	.0	.0	.0	.3	4.5	.2	.4	.4	.0
E	.2	.2	.1	.0	.0	.0	.6	9.3	.9	.6	.5	.3
SE	2.3	17.2	20.3	4.5	.1	44.4	17.5	42.6	47.8	45.8	41.6	
S	4.9	22.9	15.2	2.4	*	45.4	14.9	45.7	44.9	43.0	48.5	
SW	1.8	3.3	.5	*	.0	5.6	9.4	5.8	3.4	6.4	6.5	
W	.6	.3	*	*	.0	.9	6.9	1.0	.5	1.1	1.1	
NW	.5	.2	*	.0	.0	.7	5.8	.5	.5	1.1	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5					1.5	.0	2.5	1.4	1.0	1.1	
TOT OBS	861	3068	2506	483	6	6924		1901	1327	1921	1575	
TOT PCT	12.4	44.3	36.2	7.0	.1		100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1856-1976

MARCH

AREA 0017 WALVIS BAY SW
25.55 11.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	2.5	2.2	25.9	51.6	16.6	1.2	.1	14.8	100.0	1901
0600Z	1.4	2.9	26.4	49.1	18.5	1.7	.0	15.4	100.0	1527
1200Z	1.0	2.7	27.2	47.2	18.8	2.0	.1	15.5	100.0	1921
1800Z	1.1	2.5	25.5	50.5	18.8	1.4	.1	15.4	100.0	1575
TOT	105	178	1821	3433	1275	109	3	15.3		6924
PCT	1.5	2.6	26.3	49.6	18.4	1.6	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	.1	*	.1	.2		4.9
NE	*	*	*	*		5.3
E	.2	.1	.1	.1		3.7
SE	11.8	9.6	19.0	9.0		4.7
S	16.5	6.2	12.6	9.2		4.1
SW	1.4	.5	.7	.6		3.8
W	.3	.1	.1	.1		3.7
NW	.2	.1	.1	.1		4.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.1	.3		4.1
TOT OBS	1334	720	1418	851	4323	4.4
TOT PCT	30.9	16.7	32.8	19.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	500	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.1	*	.0	*	.0	*	.0	.0	.0	*	.2	
.0	.0	*	*	.0	.0	.0	.0	.0	*	.0	
.0	.0	*	*	.0	.0	.0	.0	.0	*	.0	
.1	.1	.5	4.3	10.9	5.9	2.5	.5	.2	.1	.1	
.4	.2	.7	3.8	7.9	3.8	1.7	.4	.3	.3	.3	
.1	*	*	.2	.3	.3	.1	*	*	*	.2	
.0	.0	.1	.1	.1	*	.0	.0	.0	*	.4	
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.1	*	*	.0	.0	.0	.5	
.3	.5	.1	3.70	8.41	4.35	1.90	.44	.23	.17	22.99	4323
.9	.3	1.2	8.6	19.5	10.1	4.4	1.0	.5	.4	53.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	.5	.8	.9	.9	.9	.9	.9	.9
* OR >5000	1.4	1.9	1.9	2.0	2.0	2.0	2.0	2.0
* OR >3500	4.8	5.9	6.3	6.3	6.3	6.3	6.3	6.3
* OR >2000	13.1	15.8	16.2	16.3	16.3	16.3	16.3	16.3
* OR >1000	28.8	34.5	35.3	35.5	35.5	35.5	35.5	35.5
* OR >600	34.5	42.8	43.9	44.1	44.1	44.1	44.1	44.1
* OR >300	35.1	43.7	45.1	45.2	45.2	45.2	45.2	45.2
* OR >150	35.1	43.8	45.2	45.4	45.4	45.4	45.4	45.4
* OR >0	35.1	44.0	45.4	45.7	45.7	45.7	45.7	45.7
TOTAL	1542	1931	1993	2005	2008	2027	2039	2042

TOTAL NUMBER OF OBS: 4390

PCT FREQ NH <5/8: 53.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
15.0	10.0	10.0	9.1	8.5	7.3	10.6	11.7	16.9	4625

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1856-1976

MARCH

AREA 0017 WALVIS BAY SW
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	*	*	.1	.4	.1	.0	.1	.0	.2	1.1	
	TOT %	.2	*	*	.1	.4	.1	.0	.1	.0	.2	1.1	
1/2<1	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	*	.1	.0	*	.0	.0	*	.1	
	TOT %	.0	.0	.0	*	.1	.0	*	.0	.0	*	.2	
1<2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	*	.1	.2	.1	*	*	.0	.0	.5	
	TOT %	.0	.0	*	.2	.2	.1	*	*	.0	.0	.5	
2<5	PCP	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	*	*	.5	1.4	.2	.0	.1	.0	.1	2.3	
	TOT %	*	*	*	.5	1.5	.2	.0	.1	.0	.1	2.4	
5<10	PCP	.0	.0	.0	.3	.2	*	*	.0	.0	*	.6	
	NO PCP	.1	*	.1	8.5	10.0	.8	.1	.1	.0	.3	20.0	
	TOT %	.1	*	.1	8.8	10.2	.8	.2	.1	.0	.3	20.5	
10+	PCP	.0	.0	.0	.2	*	*	.0	.0	.0	*	.3	
	NO PCP	*	.1	.3	39.2	32.0	2.4	.4	.2	.0	.4	75.0	
	TOT %	*	.1	.3	39.4	32.1	2.4	.4	.2	.0	.4	75.3	
TOT OBS													4999
TOT PCT		.4	.1	.5	49.0	44.5	3.5	.6	.5	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	.0	.0	.0	.0	.2	.3	
	4-10	.1	.0	.0	*	.2	.1	.0	.1	.0	.0	.5	
	11-21	*	.0	.0	*	.2	*	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.2	*	*	.1	.4	.1	.0	.1	.0	.2	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	.1	.0	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	.1	.0	*	.0	.0	*	.2	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	*	.0	*	.1	.0	*	.0	.0	.1	
	11-21	.0	.0	.0	.1	.2	*	*	.0	.0	.0	.3	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.2	.3	.1	*	*	.0	.0	.6	
2<5	0-3	*	.0	.0	*	.1	*	*	.0	.0	.1	.3	
	4-10	*	*	*	.2	.6	.1	.0	.1	.0	.0	1.0	
	11-21	.0	.0	.0	.2	.8	*	.0	.0	.0	.0	1.0	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	*	*	*	.6	1.7	.2	*	.1	.0	.1	2.7	
5<10	0-3	*	.0	.0	*	.1	*	*	.1	.0	.4	.7	
	4-10	.1	*	*	1.3	2.7	.7	.1	.1	.0	.0	5.0	
	11-21	*	.0	.1	3.6	4.4	.2	*	.0	.0	.0	8.3	
	22+	.0	.0	*	3.1	2.3	*	*	.0	.0	.0	5.4	
	TOT %	.1	*	.1	8.0	9.6	1.0	.2	.1	.0	.4	19.4	
10+	0-3	.0	*	*	.4	.5	.2	.1	.1	.0	.5	1.8	
	4-10	*	*	.2	6.6	8.8	1.9	.3	.2	.0	.0	18.1	
	11-21	.0	*	.1	22.2	18.0	.7	.1	.1	.0	.0	41.1	
	22+	.0	.0	*	9.5	5.6	*	.0	.0	.0	.0	15.1	
	TOT %	*	.1	.3	38.7	32.9	2.8	.5	.3	.0	.5	76.1	
TOT OBS													5704
TOT PCT		.4	.1	.5	47.6	44.9	4.1	.7	.0	.0	1.2	100.0	

PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1856-1976

MARCH

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.5	.4	.8	8.4	19.2	9.4	4.9	1.0	.7	.5	46.8	53.2	1048
06009	.7	.5	2.0	10.1	23.8	11.2	4.8	.9	.7	.3	54.9	45.1	1120
12015	.5	.2	.9	6.2	15.2	9.0	3.4	.8	.5	.3	37.1	62.9	1187
18021	.9	.3	.9	9.0	17.8	9.6	4.2	1.3	.3	.5	44.7	55.3	1129
TOT	40	15	51	377	849	439	192	46	24	17	2050	2434	4484
PCT	.9	.3	1.1	8.4	18.9	9.8	4.3	1.0	.5	.4	45.7	54.3	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.5	.2	.5	1.5	19.9	76.4	1464
06009	1.0	.3	.5	2.9	19.6	75.6	1359
12015	.8	.2	.6	2.9	19.4	76.2	1578
18021	.9	.3	.5	3.4	19.3	75.5	1380
TOT	61	14	32	154	1135	4405	5801
PCT	1.1	.2	.6	2.7	19.6	75.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.9	3.3	13.5	35.5	51.0	1015
06009	.7	3.3	15.8	40.8	43.4	1106
12015	.5	1.8	10.3	28.9	60.8	1161
18021	.9	2.2	13.8	33.1	53.1	1108
TOT	43	115	585	1513	2292	4390
PCT	1.0	2.6	13.3	34.5	52.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	.1	.0	.0	.0	.0	6	.1
80/84	.0	.0	.0	*	*	*	.0	.0	5	.1
75/79	.0	.0	*	.1	.6	1.0	.3	.0	90	2.0
70/74	.0	.0	*	.4	3.1	10.4	11.2	3.5	1267	28.7
65/69	.0	.0	.0	.5	2.8	15.2	26.0	10.5	2432	55.0
60/64	.0	.0	.0	.0	.1	.7	3.7	7.6	537	12.1
55/59	.0	.0	.0	.0	.0	.0	.3	1.6	84	1.9
TOTAL	0	0	7	52	292	1209	1837	1024	4421	100.0
PCT	.0	.0	.2	1.2	6.6	27.3	41.6	23.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
.0	.0	*	.1	*	.0	.0	.0	.0	.0
.0	*	.0	1.2	.8	*	.0	*	.0	.0
.0	.0	.1	16.4	10.8	1.0	.1	.1	.0	.1
.1	*	.2	29.8	22.5	1.8	.2	.1	.0	.3
.1	*	.1	2.4	8.3	.5	.1	.1	.0	.4
.2	*	*	.1	1.2	.1	*	.1	.0	.2
.4	.1	.5	50.0	43.8	3.4	.5	.4	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	72	70	67	58	56	52	66.0	1912
06009	87	73	71	68	59	56	51	66.8	1540
12015	86	79	75	70	61	59	54	69.5	1924
18021	81	73	72	68	60	57	55	67.2	1589
TOT	88	76	73	68	59	57	51	67.4	6965

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.0	3.2	22.5	42.7	30.7	84	1122
06009	.0	.9	5.7	24.1	43.8	25.5	83	1090
12015	.0	2.6	13.2	37.1	33.5	13.5	79	1196
18021	.0	.8	3.8	23.7	46.4	25.2	83	1095
TOT	0	61	298	1219	1865	1060	82	4503

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PERIOD: (PRIMARY) 1928-1976
(OVER-ALL) 1856-1976AREA 0017 WALVIS BAY SW
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WU FOG
20/22	.0	.0	.0	.0	.0	*	.0	.0	.0	*	2	.0	*
17/19	.0	.0	.0	.0	*	*	.0	.0	.0	*	4	.0	.1
14/16	.0	.0	.0	.0	.0	*	*	*	*	*	8	.0	.2
11/13	.0	.0	.0	*	.1	.1	.1	*	*	.0	20	*	.4
9/10	.0	.0	.0	.1	.3	.3	.1	.2	.1	.0	47	*	1.0
7/8	.0	.0	*	.4	.4	.3	.5	.1	*	.0	80	.1	1.7
6	.0	.0	.1	.5	.3	.3	.3	.1	.0	.0	75	.1	1.5
5	.0	.0	.2	.5	.7	.7	.7	.1	.0	.0	135	.1	2.9
4	.0	.0	.2	.8	.9	1.2	1.0	.0	.0	.0	187	.2	3.9
3	.0	*	.5	1.2	1.3	2.0	1.2	.0	.0	.0	283	.2	6.0
2	.0	*	.6	1.9	3.0	4.1	.8	.0	.0	.0	477	.6	9.8
1	.0	*	.6	1.6	4.7	7.7	.7	.0	.0	.0	702	.7	14.0
0	.0	.1	.3	1.9	8.4	9.7	.4	.0	.0	.0	954	.4	20.4
-1	.0	.0	.2	.7	8.7	7.2	.2	*	.0	.0	781	.4	16.0
-2	.0	*	.2	.9	5.6	2.5	*	.0	.0	.0	421	.2	9.0
-3	.0	.0	*	.4	2.4	1.5	*	.0	.0	.0	203	.0	4.4
-4	.0	.0	.2	.5	1.3	.4	*	.0	.0	.0	109	*	2.3
-5	.0	.0	.1	.2	.7	.3	.0	.0	.0	.0	61	.1	1.3
-6	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	15	.0	.3
-7/-8	.0	.0	*	*	.2	.1	.0	.0	.0	.0	14	.0	.3
-9/-10	.0	.0	*	*	*	.0	.0	.0	.0	.0	5	.0	.1
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	*	*	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	2	11	148	539	1775	278	27	5	4588	145	4443		
PCT	*	.2	3.2	11.7	39.1	38.7	6.1	.6	.2	.1	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*	.1	.1	*	.0	.0	.0	.1
1-2	.0	.2	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
3-4	*	*	*	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.1	.0	.0	.0	.4	.1	.1	*	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	*	.2	.4	*	.0	.0	.0	.7
1-2	.0	.2	.0	.0	.0	.0	.2	*	3.1	1.6	.0	.0	.0	4.7
3-4	.0	.1	.1	.0	.0	.0	.2	*	2.3	7.8	.5	.0	.0	10.7
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.6	8.2	2.1	.1	.0	11.0
7	*	.0	*	.0	.0	.0	.1	.0	.2	5.7	3.8	.2	*	9.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	1.6	2.3	.3	.0	4.3
10-11	.0	.0	.0	*	.0	.0	*	.0	.0	.4	2.3	.5	*	3.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.9	.1	.0	1.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.7	.2	*	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.2	.2	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.2	*	.0	.0	.6	.3	6.7	25.5	12.9	1.7	.1	47.1

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	.9	.1	.0	.0	.0		1.4	.1	.3	.1	.0	.0	.0		.4
1-2	.2	6.0	3.0	.0	.0	.0		9.2	*	1.0	.2	.0	.0	.0		1.2
3-4	.1	3.8	7.7	.5	.0	.0		12.2	*	.3	.1	.0	.0	.0		.5
5-6	.0	.7	8.8	1.5	*	.0		11.0	.0	.1	.3	*	.0	.0		.4
7	.0	.1	3.9	2.8	.2	.0		7.0	.0	*	.1	*	.0	.0		.1
8-9	.0	*	1.0	2.2	.3	.0		3.5	.0	.0	.0	.0	*	.0		*
10-11	.0	*	.2	1.3	.1	.0		1.6	.0	.0	.0	.0	.0	.0		.0
12	.0	*	.1	.4	.1	.0		.6	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	*	.3	*	*		.4	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	*	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	*	.0	.0		*	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	11.5	25.1	9.0	.8	*		47.2	.1	1.8	.7	*	*	.0		2.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.1	.0	.0	.0	.0		.1	*	.1	.0	.0	.0	.0		.1	
1-2	.0	.1	*	.0	.0	.0		.2	*	.1	.0	.0	.0	.0		.2	
3-4	.0	*	.0	.0	.0	.0		*	.0	*	.1	.0	.0	.0		.1	
5-6	.0	*	.0	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	*	.0	.0	.0		*	.0	*	.0	.0	.0	.0		*	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	*	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	.3	.1	*	.0	.0		.4	.1	.3	.1	.0	.0	.0		.4	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	1.9	.2	.0	.0	.0	4.7	
1-2	.4	10.8	4.8	.0	.0	.0	16.1	
3-4	.1	8.6	15.8	1.0	.0	.0	23.5	
5-6	.0	1.5	17.1	3.6	.1	.0	22.3	
7	*	.3	9.7	6.5	.4	*	17.0	
8-9	.0	.1	2.7	4.5	.6	.0	7.8	
10-11	.0	.0	.6	3.5	.6	*	4.8	
12	.0	*	.2	1.3	.2	.0	1.7	
13-16	.0	.0	.1	1.0	.2	*	1.3	
17-19	.0	*	*	.3	.2	.0	.6	
20-22	.0	.0	.0	*	*	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.2	21.3	51.3	21.8	2.4	.1	100.0	3395

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	3.1	5.2	4.3	3.5	2.6	1.7	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	874
6-7	.0	.7	3.8	5.4	6.5	4.5	5.0	1.6	1.9	.6	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	1219
8-9	.0	.3	1.4	2.3	5.0	3.4	3.0	1.4	3.0	.8	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	832
10-11	.0	.4	.4	1.0	1.8	2.0	1.9	.9	1.2	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	413
12-13	.0	.0	.5	.4	.0	.7	.7	.4	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	170
>13	.0	.0	.0	.2	.4	.3	.2	.1	.1	*	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	58
INDET	.4	.9	1.8	2.4	1.7	1.1	1.1	.4	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	427
TOTAL	3.0	21.1	52.2	63.9	78.0	58.1	54.9	21.2	31.0	10.9	3.0	1.6	.8	.0	.0	.0	.0	.0	.0	.0	3993
PCT	.8	5.3	13.1	16.0	19.5	14.6	13.6	5.3	7.8	2.7	.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0

APRIL

PERIOD: (PRIMARY) 1929-1976
(OVER-ALL) 1856-1976

TABLE 1

AREA 0017 HALVIS BAY SW
25.55 11.9E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	3.6	.0	.0	.0	.0	3.6	1.6	.0	15.0	8.3	6.2	.0	55.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	5.3	.0	22.4	.0	.0	.0	72.4
E	.0	.0	.0	.0	.0	.0	.0	.0	2.8	2.8	4.9	.0	.0	.0	89.6
SE	.1	.4	.3	.0	.0	.0	.0	.8	.5	.6	.8	.1	1.6	.1	95.5
S	*	.2	.3	.0	.0	.0	.0	.5	.5	.7	3.3	.2	2.0	.1	92.8
SW	.0	1.4	1.1	.0	.0	.0	.0	2.5	1.0	.3	3.7	.3	1.9	.0	90.3
W	.9	.0	.5	.0	.0	.0	.0	1.4	.9	1.9	4.5	.0	.9	.0	90.4
NW	2.8	.0	.3	.0	.0	.0	.0	3.1	.3	.0	12.2	4.2	.0	.0	80.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.8	.9	1.8	.0	80.5
TOT PCT	.1	.4	.4	.0	.0	.0	.0	.9	.6	.6	2.9	.3	1.7	.1	92.9
TOT OBS:	4838														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST BLWG	NO SIG WEA
00603	.0	.3	.5	.0	.0	.0	.0	.8	.2	1.7	3.2	.4	1.2	.0		92.5
06009	.2	.3	.6	.0	.0	.0	.0	1.1	1.3	.3	3.5	.4	1.7	.1		91.6
12015	.1	.3	.1	.0	.0	.0	.0	.5	.4	.1	2.6	.2	2.5	.2		93.5
18021	.3	.4	.4	.0	.0	.0	.0	1.1	.4	.4	2.9	.1	1.6	.1		93.3
TOT PCT	.1	.3	.4	.0	.0	.0	.0	.9	.6	.6	3.1	.3	1.8	.1		92.7
TOT OBS:	4908															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.2	.6	.2	*	.0	.0		1.1	7.5	.5	1.3	1.0	2.0	1.5	1.6	.7	3.9		
NE	.1	.2	.1	*	.0	.0		.4	6.9	.3	.5	.6	.0	.4	.4	.3	.3		
E	.1	.4	.1	*	.0	.0		.7	8.5	.6	.7	.8	1.8	.7	.5	.7	.0		
SE	.8	9.7	21.2	9.7	.9	.0		42.3	16.6	43.0	37.0	46.7	42.5	44.4	34.8	39.9	27.6		
S	1.9	16.5	18.0	4.5	.2	*		41.2	12.9	41.1	46.4	39.1	45.8	38.2	43.2	43.3	52.1		
SW	.6	5.4	2.0	.3	.0	.0		8.3	9.0	7.9	7.5	6.7	4.0	7.6	14.7	9.4	6.8		
W	.3	1.4	.3	.1	*	.0		2.1	8.0	2.4	2.8	1.4	1.0	2.2	2.0	2.6	.8		
NW	.3	.9	.2	.1	*	.0		1.5	8.1	1.3	1.4	1.0	1.0	2.6	1.4	1.0	2.1		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.5							2.5	.0	2.8	2.5	2.8	2.0	2.3	1.4	2.1	6.3		
TOT OBS	461	2317	2780	969	73	1	6601		13.5	1380	439	1407	100	1417	416	1347	95		
TOT PCT	7.0	35.1	42.1	14.7	1.1	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.5	.4	.1	*	.0		1.1	7.5	.7	1.0	1.5	1.0	
NE	.2	.1	*		.0		.4	6.9	.3	.6	.4	.3	
E	.4	.2	.1	.0	.0		.7	8.5	.6	.8	.7	.7	
SE	3.3	18.1	17.1	3.8	.1		42.3	16.6	41.5	46.4	42.2	39.1	
S	7.5	21.7	10.7	1.2	*		41.2	12.9	42.4	39.6	39.3	43.9	
SW	3.1	4.4	.7	*	.0		8.3	9.0	7.6	6.5	9.4	9.3	
W	1.1	.9	.1	.1	.0		2.1	8.0	2.5	1.3	2.2	2.4	
NW	.9	.5	.1	.1	.0		1.5	8.1	1.3	1.0	2.3	1.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.5						2.5	.0	2.7	2.7	2.1	2.4	
TOT OBS	1283	3057	1913	343	5	6401		13.5	1819	1507	1833	1442	
TOT PCT	19.4	46.3	29.0	5.2	.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1929-1976
(OVER-ALL) 1856-1976

APRIL

AREA 0017 WALVIS BAY SW
25.55 11.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	2.7	4.6	35.0	42.3	14.3	1.0	.0	13.4	100.0	1819
06009	2.7	3.8	39.2	42.1	15.1	1.1	.0	13.6	100.0	1507
12015	2.1	4.8	34.9	42.0	15.0	1.3	.0	13.6	100.0	1833
18021	2.4	4.8	35.4	42.1	14.3	1.0	.1	13.4	100.0	1442
TOT	163	298	2317	2780	969	73	1	13.5		6601
PCT	2.5	4.5	35.1	42.1	14.7	1.1	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION						MEAN
WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	CLOUD COVER
N	.1	*	.2	.6		6.6
NE	.1	*	.1	.1		5.4
E	.2	.1	.2	.2		4.9
SE	11.5	9.9	16.1	8.3		4.5
S	15.5	5.8	10.8	7.2		3.9
SW	2.4	1.2	1.7	1.6		4.2
W	.6	.5	.6	.5		4.4
NW	.4	.2	.4	.5		5.2
VAR	.0	.0	.0	.0		.0
CALM	1.0	.1	.5	.9		4.4
TOT OBS	1291	729	1240	806	4066	4.3
TOT PCT	31.8	17.9	30.5	19.8	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	4.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7
= OR >2000	13.1	15.3	15.6	15.6	15.6	15.6	15.6	15.6
= OR >1000	29.4	34.2	34.7	34.8	34.8	34.8	34.8	34.8
= OR >600	34.3	40.4	41.2	41.2	41.2	41.3	41.3	41.3
= OR >300	34.9	41.6	42.4	42.5	42.5	42.5	42.5	42.5
= OR >150	34.9	41.7	42.5	42.6	42.6	42.6	42.6	42.6
= OR >0	35.0	41.9	42.9	43.0	43.4	44.0	44.5	44.6
TOTAL	1456	1742	1785	1790	1805	1831	1849	1854

TOTAL NUMBER OF OBS: 4158

PCT FREQ NH <5/8: 55.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
17.5	10.3	9.7	10.1	7.7	6.1	9.9	10.6	16.4	1.7	4375

APRIL

PERIOD: (PRIMARY) 1929-1976
(OVER-ALL) 1856-1976AREA 0017 WALVIS BAY SW
25.95 11.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	*	.1	.5	.1	*	.1	.0	.3	1.4	
	TOT %	.1	.1	*	.1	.5	.1	*	.1	.0	.3	1.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	*	*	.3	*	*	*	.0	*	.4	
	TOT %	.0	.0	*	*	.3	*	*	*	.0	*	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	NO PCP	*	.0	.0	.2	.1	.1	*	.0	.0	.0	.4	
	TOT %	*	.0	.0	.2	.1	.1	*	.0	.0	.0	.4	
2<5	PCP	*	.0	.0	*	*	*	.0	*	.0	.0	.1	
	NO PCP	.1	*	*	.4	.9	.1	.0	*	.0	.1	1.7	
	TOT %	.1	*	*	.4	.9	.1	.0	.1	.0	.1	1.7	
5<10	PCP	*	.0	.0	.3	.1	.1	.0	*	.0	.0	.5	
	NO PCP	.4	.1	.1	6.3	7.7	1.0	.3	.3	.0	.7	16.9	
	TOT %	.4	.1	.1	6.5	7.9	1.1	.3	.3	.0	.7	17.4	
10+	PCP	.0	.0	.0	.1	.1	.1	*	.0	.0	.0	.3	
	NO PCP	.3	.2	.6	37.8	30.0	5.4	1.9	.9	.0	1.2	78.4	
	TOT %	.3	.2	.6	37.9	30.1	5.5	1.9	.9	.0	1.2	78.7	
TOT OBS													4836
TOT PCT		1.0	.4	.7	45.1	39.9	6.9	2.2	1.5	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.1	.0	*	.1	*	.0	.1	.0	.3	.5	
	4-10	.1	.0	.0	.1	.3	.1	*	*	.0	.5		
	11-21	*	.0	.0	*	.2	*	.0	*	.0	.3		
	22+	.0	*	*	.0	.0	.0	.0	.0	.0	*		
	TOT %	.1	.1	*	.1	.5	.1	*	.1	.0	.3	1.3	
1/2<1	0-3	.0	*	*	.0	.0	.0	*	.0	.0	*	.1	
	4-10	*	.0	.0	*	.1	*	*	.0	.0	.2		
	11-21	.0	.0	.0	*	.1	*	.0	.0	.0	.1		
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0	*		
	TOT %	*	*	*	*	.3	*	*	*	.0	*	.4	
1<2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	
	4-10	*	.0	.0	.1	.1	*	*	.0	.0	.2		
	11-21	.0	.0	.0	*	.1	*	*	.0	.0	.1		
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1		
	TOT %	*	.0	.0	.2	.2	.1	*	.0	.0	*	.5	
2<5	0-3	.0	.0	.0	*	.1	*	.0	.0	.0	.1	.2	
	4-10	.1	*	.0	.1	.5	.1	.0	*	.0	.8		
	11-21	*	.0	*	.1	.4	*	*	*	.0	.6		
	22+	.0	.0	.0	.2	*	*	.0	.0	.0	.2		
	TOT %	.1	*	*	.4	1.0	.2	*	.1	.0	.1	1.8	
5<10	0-3	*	*	*	.2	.4	.1	.1	.1	.0	.7	1.5	
	4-10	.2	*	.1	1.4	2.8	.7	.2	.2	.0	5.6		
	11-21	.1	*	*	2.7	3.6	.3	*	.1	.0	6.9		
	22+	.0	.0	*	1.9	1.2	.0	.0	.0	.0	3.1		
	TOT %	.4	.1	.1	6.1	8.0	1.1	.3	.3	.0	.7	17.1	
10+	0-3	.1	.1	*	.6	1.3	.5	.2	.1	.0	1.3	4.2	
	4-10	.1	.1	.3	8.7	12.3	4.0	1.2	.6	.0	27.3		
	11-21	*	.1	.1	20.1	14.3	1.0	.3	.1	.0	36.0		
	22+	.0	.0	*	8.0	3.3	*	.1	.0	.0	11.3		
	TOT %	.3	.2	.5	37.3	31.2	5.5	1.8	.8	.0	1.3	79.0	
TOT OBS													5469
TOT PCT		.9	.4	.7	44.1	41.1	7.0	2.1	1.3	.0	2.4	100.0	

PERIOD: (PRIMARY) 1929-1976
(OVER-ALL) 1856-1976

APRIL

AREA 0017 WALVIS BAY SW
25.55 11.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	2.2	.0	.9	5.8	19.6	10.1	3.5	1.1	.5	.3	44.1	55.9	1024
06009	2.5	.2	1.6	9.1	22.0	11.0	3.9	1.3	.4	.3	52.2	47.8	1122
12015	1.3	.2	.9	4.4	16.0	9.4	3.0	1.3	.6	.4	37.3	62.7	1120
18021	1.7	.1	1.5	6.0	17.0	8.3	3.5	1.4	.3	.4	40.1	59.9	1013
TOT	82	5	52	271	401	415	149	54	19	14	1862	2417	4279
PCT	1.9	.1	1.2	6.3	18.7	9.7	3.5	1.3	.4	.3	43.5	56.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	1.3	.4	.5	1.5	16.8	79.5	1454
06009	2.1	.4	.4	2.6	16.5	78.0	1363
12015	.9	.3	.6	1.5	17.9	78.8	1514
18021	1.2	.4	.3	1.8	17.8	78.5	1275
TOT	76	21	26	103	967	4413	5606
PCT	1.4	.4	.5	1.8	17.2	78.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	2.3	3.5	10.7	36.1	53.2	980
06009	2.5	4.5	15.2	38.9	45.9	1100
12015	1.4	2.5	8.4	30.7	60.9	1091
18021	1.7	3.6	10.6	30.8	58.6	987
TOT	83	146	469	1421	2268	4158
PCT	2.0	3.5	11.3	34.2	54.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
85/89	.0	*	*	*	.0	.0	.0	.0	3	.1
80/84	.0	.0	*	.0	.0	*	.0	.0	2	*
75/79	.0	*	.0	.2	.3	.4	.1	.0	38	.9
70/74	.0	.0	*	.2	2.2	5.1	3.3	.9	497	11.8
65/69	.0	.0	*	.7	5.4	20.6	26.5	11.5	2728	64.8
60/64	.0	.0	.0	*	1.0	2.3	6.2	6.8	683	16.2
55/59	.0	.0	.0	.0	.1	.4	2.1	3.0	234	5.6
50/54	.0	.0	.0	.0	.0	.0	.0	.6	24	.6
TOTAL	0	2	6	47	377	1216	1604	957	4209	100.0
PCT	.0	*	.1	1.1	9.0	28.9	38.1	22.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	*	*	.0	.0	.0	.0	.0
80/84	.0	.0	.0	*	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	.5	.3	*	*	.0	.0	*
70/74	.1	*	*	6.3	3.8	1.0	.2	.2	.0	.2
65/69	.1	.1	.6	34.2	21.6	5.0	1.6	.9	.0	.7
60/64	.5	.1	.1	5.0	8.8	.7	.2	.3	.0	.5
55/59	.3	*	*	.7	3.6	.4	.1	.2	.0	.4
50/54	.0	*	.0	.0	.4	.1	.0	*	.0	.1
TOTAL	.9	.2	.7	46.8	38.6	7.2	2.2	1.6	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	81	70	69	65	56	55	46	64.4	1843
06009	85	72	70	66	57	53	48	65.0	1530
12015	81	77	73	68	59	56	52	67.4	1859
18021	82	72	70	66	58	55	48	65.4	1457
TOT	85	75	71	66	57	55	46	65.6	6689

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	.4	6.3	24.8	38.4	30.0	83	1120
06009	.0	1.2	7.9	26.7	38.9	25.3	82	1073
12015	.0	2.9	14.9	35.8	33.3	13.1	78	1121
18021	.0	.8	6.6	27.3	41.4	23.9	82	1004
TOT	0	59	389	1239	1636	995	82	4318

APRIL

PERIOD: (PRIMARY) 1929-1976
(OVER-ALL) 1856-1976AREA 0017 WALVIS BAY SW
25.55 11.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	W FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	4	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.0	*	*	*	*	9	.0	.2
11/13	.0	.0	.0	.0	*	*	.2	*	*	.1	.0	15	.0	.3
9/10	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	20	.0	.5
7/8	.0	.0	.0	.1	.1	.4	.3	.2	.1	.0	.0	48	*	1.1
6	.0	.0	*	.2	.2	.2	.3	.3	*	.0	.0	56	.1	1.1
5	.0	.0	.1	.4	*	.5	.3	.4	*	.0	.0	100	.1	2.2
4	.0	.0	.2	.3	.9	.8	.8	.4	*	.0	.0	152	.2	3.2
3	.0	.0	.2	.5	.8	1.4	1.6	.4	.0	.0	.0	225	.1	5.0
2	.0	*	.2	.7	1.9	2.9	2.6	.2	.0	.0	.0	380	.3	8.3
1	.0	*	.2	.9	1.8	4.8	4.3	.1	.0	.0	.0	534	.4	11.7
0	.0	*	.1	.9	2.6	9.7	3.5	.1	*	.0	.0	747	.5	16.4
-1	.0	*	.1	.7	2.1	13.2	2.9	.0	.0	.0	.0	842	.4	18.6
-2	.0	.0	.1	.7	1.9	9.6	.9	.0	.0	.0	.0	583	.2	13.0
-3	.0	.0	.1	.3	1.7	5.0	.7	.0	.0	.0	.0	342	.2	7.5
-4	.0	*	.0	.4	1.2	2.2	.2	*	.0	.0	.0	175	.1	3.8
-5	.0	.0	.1	.1	.9	1.4	*	.0	.0	.0	.0	112	.1	2.4
-6	.0	.0	.0	.1	.2	.2	*	.0	.0	.0	.0	25	.0	.6
-7/-8	.0	.0	.0	.1	.3	.2	.1	.0	.0	.0	.0	35	*	.8
-9/-10	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	3	.0	.1
-11/-13	.1	.0	.0	*	*	*	.0	.0	.0	.0	.0	7	.0	.2
-14/-16	.0	*	.0	*	*	*	.0	.0	.0	.0	.0	4	.0	.1
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	4	9	65	288	764	2336	825	104	14	5	3	4419	128	4291
PCT	.1	.2	1.5	6.5	17.3	52.9	18.7	2.4	.4	.1	.1	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.1
1-2	.2	.4	.1	.0	.0	.0	.7	.1	.1	*	.0	.0	.0	.2
3-4	.0	*	.1	.0	.0	.0	.1	.0	*	*	.0	.0	.0	.1
5-6	.0	.2	*	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
7	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.8	.3	.0	.0	.0	1.3	.1	.2	.1	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1	.3	.8	.0	.0	.0	.0	1.2
1-2	.0	.3	.1	.0	.0	.0	.4	.4	5.5	1.6	.0	.0	.0	7.4
3-4	.0	.0	.1	.0	.0	.0	.1	.1	3.0	7.3	.7	.0	.0	11.1
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.8	7.1	1.5	*	.0	9.4
7	.0	.0	.0	.0	.0	.0	.0	*	.1	4.5	3.0	*	.0	7.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	1.2	2.0	.1	.0	3.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.1	.1	.0	1.8
12	.0	.0	.0	*	.0	.0	*	.0	*	.1	.6	.1	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.3	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.4	.2	*	.0	.0	.7	.8	10.3	22.7	9.6	.8	.0	44.1

PERIOD: (OVER-ALL) 1963-1976

APRIL

AREA 0017 WALVIS BAY SW
25.55 11.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.1	1.3	.1	.0	.0	.0	2.5	.3	.4	*	.0	.0	.0	.0	.7
1-2	.8	10.1	2.5	.0	.0	.0	13.5	.2	2.9	.2	.0	.0	.0	.0	3.3
3-4	.1	4.2	6.4	.7	.0	.0	11.4	*	1.1	.5	*	.0	.0	.0	1.7
5-6	.0	.6	5.5	.9	.1	.0	7.1	.1	*	.2	.0	.0	.0	.0	.3
7	*	.2	2.3	1.1	*	.0	3.7	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	*	.8	1.1	*	.0	1.9	.0	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.3	.5	.0	.0	.8	.0	*	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	16.5	18.1	4.6	.1	.0	41.4	.6	4.5	1.0	*	.0	.0	.0	6.1

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.1	.2	.0	.0	.0	.0	.3	.1	.3	.0	.0	.0	.0	.0	.4	
1-2	*	.8	.0	.0	.0	.0	.8	.1	.8	*	.0	.0	.0	.0	.9	
3-4	.1	.1	.1	.0	.0	.0	.4	*	.1	*	.0	.0	.0	.0	.2	
5-6	.0	.1	.1	.0	.0	.0	.2	.0	*	*	.0	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.1	.2	*	.0	.0	1.7	.3	1.2	.1	.0	.0	.0	.0	1.6	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.6	3.3	.1	.0	.0	.0	9.0	
1-2	2.2	20.6	4.5	.0	.0	.0	27.4	
3-4	.3	8.6	14.4	1.4	.0	.0	24.6	
5-6	.1	1.7	13.0	2.3	.1	.0	17.2	
7	*	.3	6.9	4.1	*	.0	11.3	
8-9	.0	.1	2.0	3.1	.2	.0	5.3	
10-11	.0	*	.9	1.5	.1	.0	2.5	
12	.0	*	.2	.7	.1	.0	1.0	
13-16	.0	.0	.2	.9	.3	.0	1.4	
17-19	.0	*	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	*	.0	*	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	34.6	42.2	14.1	.9	.0	100.0	3177

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	5.2	6.9	5.4	3.1	1.9	1.0	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	950	5
6-7	.0	1.6	4.2	5.4	5.9	3.9	2.2	1.7	1.9	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	1023	7
8-9	.0	.3	1.3	3.4	4.4	3.3	3.2	1.7	1.7	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	759	8
10-11	.0	.7	1.1	1.2	1.2	1.4	1.4	.9	1.1	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	359	7
12-13	.0	.0	1.6	.4	.7	.7	.4	.2	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	100	9
>13	.0	.0	.0	.6	.4	.7	.3	.2	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	408	5
INDET	1.7	1.3	2.5	1.7	1.5	.9	.7	.2	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	3774	7
TOTAL PCT	.91	34.6	65.5	68.7	64.3	48.1	34.5	20.1	22.6	6.0	1.8	.9	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1856-1976

MAY

AREA 0017 WALVIS BAY SW
25.45 11.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.8	.0	.0	.0	.0	.0	.0	.8	.0	.0	17.4	.0	1.9	.0	79.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	9.4	.0	3.9	.0	83.6
E	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	2.7	.0	1.1	.0	93.2
SE	.2	.2	.2	.0	.0	.0	.0	.6	.3	.4	.8	*	1.0	*	96.8
S	.1	.2	.2	.0	.0	.0	.0	.5	.5	.5	3.7	.1	1.0	.0	93.7
SW	.4	.8	.3	.0	.0	.0	.0	1.5	.4	.0	3.6	1.0	.8	.0	92.7
W	2.6	1.2	1.0	.0	.0	.0	.0	4.8	.0	.0	1.4	.5	.0	.5	92.7
NW	.2	1.6	1.1	.0	.0	.0	.0	2.8	2.1	.0	5.0	.2	.2	.2	89.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.6	11.8	1.6	2.4	.0	81.1
TOT PCT	.2	.3	.3	.0	.0	.0	.0	.8	.5	.4	2.9	.2	1.0	*	94.2
TOT OBS:	4845														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	.1	.2	.4	.0	.0	.0	.0	.7	.5	1.1	3.5	.1	.7	.0	93.5
06009	.1	.2	.2	.0	.0	.0	.0	1.0	.7	.2	3.9	.0	1.1	.0	93.1
12015	.2	.4	.2	.0	.0	.0	.0	.7	.3	.0	3.6	.4	1.4	.1	93.5
18021	.2	.3	.3	.0	.0	.0	.0	.8	.6	.4	1.9	.3	1.2	.0	95.0
TOT PCT	.2	.3	.3	.0	.0	.0	.0	.8	.5	.4	3.2	.2	1.1	*	93.8
TOT OBS:	5027														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	.9	.5	*	.0	.0		2.0	7.7		1.5	1.6	2.2	4.8	3.0	2.8	1.1	.8
NE	.1	.6	.1	.0	.0	.0		.8	7.5		.5	.7	1.4	3.0	.7	1.1	.7	.0
E	.3	.7	.5	*	.0	.0		1.4	8.6		1.5	1.5	1.8	.8	1.7	1.2	.8	1.7
SE	1.0	11.3	20.1	7.4	.7	.0		40.6	15.4		41.5	35.2	42.8	33.0	42.2	31.2	41.3	35.8
S	2.3	16.9	15.3	2.4	.2	.0		37.1	11.6		37.4	39.3	36.6	50.5	33.9	38.3	38.3	46.4
SW	.8	5.5	1.8	.1	*	.0		8.3	8.5		7.8	10.8	6.1	4.0	7.3	14.0	9.5	7.2
W	.5	2.2	.4	*	.0	.0		3.2	7.2		3.2	3.1	2.7	.8	3.6	3.9	3.2	2.2
NW	.4	2.2	.7	.1	.0	.0		3.3	8.1		2.4	3.5	3.2	2.3	4.4	4.6	2.9	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0		4.1	4.5	3.3	1.0	3.1	2.9	2.2	4.4
TOT DBS	640	2817	2758	698	66	0	6979		12.1		1411	448	1428	100	1573	478	1451	90
TOT PCT	9.2	40.4	39.5	10.0	.9	.0	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	09	15	18
N	1.0	1.0	.1	*	.0			2.0	7.7		1.5	2.3	3.0	1.1	
NE	.4	.4	.1	.0	.0			.8	7.5		.5	1.5	.8	.7	
E	.7	.6	.1	*	.0			1.4	8.6		1.5	1.7	1.6	.8	
SE	4.5	18.6	14.8	2.6	.1			40.6	15.4		40.0	42.1	39.7	41.0	
S	8.8	20.1	7.5	.7	.1			37.1	11.6		37.9	37.5	35.0	38.8	
SW	3.2	4.5	.5	*	.0			8.3	8.5		8.6	6.0	8.9	9.4	
W	1.7	1.3	.1	*	.0			3.2	7.2		3.2	2.6	3.7	3.1	
NW	1.6	1.5	.2	*	.0			3.3	8.1		2.7	3.2	4.4	2.9	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	3.2			.0	.0			3.2	.0		4.2	3.1	3.1	2.3	
TOT DBS	1753	3342	1639	234	11	6979			12.1		1859	1528	2051	1541	
TOT PCT	25.1	47.9	23.5	3.4	.2	100.0					100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1856-1976

MAY

AREA 0017 WALVIS BAY SW
25.45 11.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	4.2	5.8	40.5	39.2	9.5	.9	.0	11.8	100.0	1859	
06009	3.1	6.2	40.1	40.6	9.3	.8	.0	12.0	100.0	1528	
12015	3.1	6.2	39.2	39.3	11.1	1.1	.0	12.3	100.0	2051	
18021	2.3	5.5	42.1	39.2	9.9	1.0	.0	12.2	100.0	1541	
TOT	225	415	2817	2758	698	66	0	12.1		6979	
PCT	3.2	5.9	40.4	39.5	10.0	.9	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.4	.6	.4	4.5	
NE	.2	.1	.2	.1	4.2	
E	.6	.4	.2	.1	3.1	
SE	16.5	9.1	14.2	5.7	3.9	
S	16.4	5.9	8.8	5.1	3.5	
SW	2.6	.9	1.8	.7	3.7	
W	1.4	.7	.8	.3	3.3	
NW	.9	.7	.9	.5	4.2	
VAR	.0	.0	.0	.0	.0	
CALM	1.3	.3	.6	.3	3.1	
TOT OBS	1664	753	1152	542	4111	3.7
TOT PCT	40.5	18.3	28.0	13.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 295	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.2	*	*	.1	.4	.1	.0	*	.0	*	1.1	
.0	.0	.0	.1	.1	.0	.0	.0	.0	*	.3	
.0	.0	.0	*	.1	.1	.0	.0	*	.0	1.0	
*	.1	.2	2.9	7.5	4.3	1.3	.4	.1	.2	28.4	
.6	.1	.4	1.4	4.9	2.9	.8	.3	.2	.2	24.3	
.1	*	*	.1	.8	.5	.3	.1	.1	*	3.9	
.0	.0	*	.1	.3	.2	.1	*	.0	.0	2.4	
.0	.0	*	.1	.5	.3	*	*	.0	*	2.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	*	.2	.2	*	.0	.0	*	1.8	
46	10	29	206	615	347	105	37	14	24	2678	4111
1.1	.2	.7	5.0	15.0	8.4	2.6	.9	.3	.6	65.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	.9	.9	.9	.9	.9	.9	.9
>5000	1.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>3500	3.8	4.2	4.3	4.3	4.4	4.4	4.4	4.4
>2000	11.4	12.5	12.7	12.7	12.7	12.7	12.7	12.7
>1000	23.9	27.0	27.3	27.4	27.4	27.4	27.4	27.4
>600	27.7	31.7	32.2	32.3	32.3	32.3	32.3	32.3
>300	28.2	32.3	32.9	33.0	33.1	33.1	33.1	33.1
>150	28.2	32.4	33.1	33.2	33.3	33.3	33.3	33.3
>0	28.3	32.6	33.3	33.4	33.5	33.9	34.5	34.5
TOTAL	1204	1388	1417	1423	1426	1446	1468	1471

TOTAL NUMBER OF OBS: 4261

PCT FREQ NH <5/8: 65.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
23.2	11.6	11.7	10.6	7.9	5.7	7.2	9.9	11.1	1.1	4438

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1856-1976

MAY

AREA 0017 WALVIS BAY SW
25.4S 11.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	NO PCP	.2	*	.0	.1	.6	.1	*	.1	.0	.2	1.5	
	TOT %	.2	*	.0	.1	.6	.1	.1	.1	.0	.2	1.5	
1/2<1	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.1	.1	*	.0	.0	.0	.1	.3	
	TOT %	.0	.0	.0	.1	.1	*	.0	.0	.0	.1	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	*	*	.1	*	*	*	.0	.0	.2	
	TOT %	*	.0	*	*	.1	*	*	*	.0	.0	.2	
2<5	PCP	.0	.0	.0	.1	*	.0	*	*	.0	.0	.1	
	NO PCP	.1	*	*	.3	.6	.1	.0	*	.0	.1	1.2	
	TOT %	.1	*	*	.3	.6	.1	*	*	.0	.1	1.4	
5<10	PCP	*	.0	.0	.1	.1	.1	*	*	.0	.0	.3	
	NO PCP	.4	.1	.1	5.0	6.2	.8	.2	.4	.0	.4	13.7	
	TOT %	.4	.1	.1	5.2	6.3	.9	.2	.4	.0	.4	14.0	
10+	PCP	.0	.0	.0	.1	.1	*	.1	.1	.0	.0	.3	
	NO PCP	1.2	.4	1.2	38.7	29.0	4.9	2.6	2.3	.0	1.9	82.2	
	TOT %	1.2	.4	1.2	38.8	29.1	5.0	2.6	2.3	.0	1.9	82.5	
TOT OBS													
TOT PCT													
		1.9	.7	1.4	44.6	36.9	6.1	3.0	2.9	.0	2.6	100.0	4842

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	*	.2	*	.0	.1	.0	.2	.5	
	4-10	.1	*	.0	.1	.4	.1	*	.1	.0	.0	.8	
	11-21	.0	.0	.0	*	.1	*	*	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	*	.0	.1	.7	.1	.1	.1	.0	.2	1.5	
1/2<1	0-3	*	*	.0	.0	*	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.1	.1	*	.0	.0	.0	.1	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	*	*	*	.0	.0	.0	.1	
	11-21	*	.0	.0	*	.1	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	*	*	.1	*	*	*	.0	.0	.2	
2<5	0-3	*	*	.0	*	*	*	.0	.0	.0	.1	.2	
	4-10	.1	.0	*	.1	.3	.1	.0	*	.0	.0	.6	
	11-21	.0	.0	.0	.2	.2	*	*	*	.0	.0	.5	
	22+	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.2	
	TOT %	.1	*	*	.3	.6	.1	*	*	.0	.1	1.4	
5<10	0-3	.1	.0	*	.2	.4	.1	.1	*	.0	.4	1.3	
	4-10	.2	.1	*	1.5	2.8	.7	.1	.3	.0	.0	5.6	
	11-21	.1	*	.1	2.4	2.3	.1	*	.1	.0	.0	5.1	
	22+	.0	.0	*	1.0	.5	.0	.0	.0	.0	.0	1.6	
	TOT %	.4	.1	.1	5.0	5.9	.9	.2	.4	.0	.4	13.5	
10+	0-3	.2	.1	.2	.9	1.5	.4	.4	.2	.0	1.9	5.7	
	4-10	.6	.5	.6	10.3	12.5	3.9	1.8	1.6	.0	.0	31.9	
	11-21	.5	.1	.4	19.9	13.1	.7	.3	.5	.0	.0	35.5	
	22+	.0	.0	*	7.6	2.1	.1	*	*	.0	.0	9.8	
	TOT %	1.4	.6	1.2	38.8	29.2	5.1	2.5	2.3	.0	1.9	83.0	
TOT OBS													
TOT PCT													
		2.1	.8	1.3	44.4	36.7	6.3	2.8	2.9	.0	2.6	100.0	5438

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1856-1976

MAY

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOOR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.7	.2	.3	3.4	13.5	8.2	2.2	.7	.3	1.0	31.4	68.6	1017
06009	1.4	.1	.9	8.7	18.6	10.7	3.4	1.4	.3	.7	46.2	53.8	1086
12015	1.1	.3	.7	3.1	14.0	6.8	2.3	.8	.3	.2	29.6	70.2	1204
18021	.7	.3	.9	4.1	11.4	7.2	2.0	.6	.4	.5	28.0	72.0	1050
TOT	52	10	31	210	628	357	108	78	14	26	1474	2883	4357
PCT	1.2	.2	.7	4.8	14.4	8.2	2.5	.9	.3	.6	33.8	66.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOOR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.1	.1	.3	.9	14.5	82.0	1399
06009	2.2	.4	.2	1.9	12.7	82.6	1336
12015	1.5	.6	.2	1.6	15.1	81.0	1592
18021	1.2	.3	.2	1.1	11.9	85.3	1296
TOT	98	21	13	78	767	4646	5623
PCT	1.7	.4	.2	1.4	13.6	82.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOOR (GMT)	<150 <500 ft	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.7	2.6	7.2	26.1	66.7	991
06009	1.4	2.8	13.2	35.3	51.5	1066
12015	1.1	2.5	7.1	24.3	68.6	1173
18021	.7	2.2	6.8	22.3	70.9	1031
TOT	52	108	365	1150	2746	4261
PCT	1.2	2.5	8.6	27.0	64.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	*	*	.0	.0	.0	.0	5	.1
75/79	.0	.0	*	.0	.1	*	*	.0	9	.2
70/74	.0	*	*	.1	1.0	1.3	.8	.1	141	3.4
65/69	.0	*	.1	1.1	5.6	15.3	15.7	5.7	1806	43.4
60/64	.0	.0	*	.4	4.5	11.2	17.4	10.1	1812	43.6
55/59	.0	.0	.0	*	*	.6	3.1	3.9	316	7.6
50/54	.0	.0	.0	.0	.0	*	.3	1.3	66	1.6
45/49	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
TOTAL	0	2	10	69	466	1182	1551	878	4158	100.0
PCT	.0	*	.2	1.7	11.2	28.4	37.3	21.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	*	*	*	*	*	.0	.0
75/79	.0	*	*	*	*	.1	.0	*	.0	.0
70/74	*	.0	.2	1.8	.9	.2	.2	.1	.0	.1
65/69	.7	.2	.6	22.4	11.6	3.5	2.0	1.4	.0	1.1
60/64	.7	.3	.4	20.6	16.6	2.4	.9	1.0	.0	.7
55/59	.3	.2	.2	1.5	4.4	.4	.1	.2	.0	.3
50/54	.1	.0	.0	.1	1.0	*	.0	*	.0	.3
45/49	*	.0	.0	.0	.0	.0	.0	.0	.0	*
TOTAL	1.8	.7	1.4	46.5	34.5	6.6	3.2	2.8	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOOR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	68	67	63	55	51	45	62.2	1882
06009	83	70	68	64	55	50	45	62.7	1545
12015	82	75	72	66	57	53	50	65.4	2040
18021	84	70	68	64	56	54	49	63.3	1551
TOT	84	73	69	64	55	52	45	63.5	7018

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	8.5	26.0	37.9	26.7	83	1079
06009	.0	1.8	10.1	24.5	38.9	24.6	82	1047
12015	.0	3.4	16.4	34.3	33.5	12.4	78	1149
18021	.0	1.5	9.3	27.0	40.4	21.8	82	1033
TOT	0	83	483	1211	1618	913	81	4308

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1856-1976

MAY

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29.45 11.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WU FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	*	*	6	.0	.1
14/16	.0	.0	.0	.0	*	*	.0	*	*	*	6	.0	.1
11/13	.0	.0	.0	.0	.1	.1	*	*	*	*	14	*	.3
9/10	.0	.0	.0	.0	.2	.2	.1	.1	*	*	18	.0	.4
7/8	.0	.0	.0	.2	.2	.3	.1	.2	.0	.0	45	*	1.0
6	.0	.0	.0	*	.5	.2	.2	.1	.0	.0	47	*	1.0
5	.0	.0	*	.3	.9	.5	.5	.2	.0	.0	108	*	2.4
4	.0	.0	*	.3	1.2	.8	.9	.1	.0	.0	150	.2	3.2
3	.0	.0	.3	.5	1.0	1.3	.9	.1	.0	.0	184	.1	4.0
2	.0	*	.3	1.0	1.8	2.9	1.0	*	.0	.0	314	.2	6.9
1	.0	.1	.4	1.5	3.0	5.4	.9	.0	.0	.0	500	.3	11.0
0	.0	.1	.2	2.0	5.6	8.7	.6	.0	.0	.0	757	.4	16.7
-1	.0	.2	.3	1.8	8.6	8.7	.3	.0	.0	.0	880	.5	19.4
-2	.0	*	.2	.9	7.3	5.4	*	.0	.0	.0	615	.2	13.7
-3	.0	.0	.1	.6	4.9	2.7	*	*	.0	.0	369	.1	8.2
-4	.0	.0	.2	.5	2.6	.8	.0	.0	.0	.0	186	.2	4.0
-5	.0	.0	.2	.4	1.3	.6	*	.0	.0	.0	113	.1	2.4
-6	.0	.0	.0	.1	.6	.2	.0	.0	.0	.0	40	.0	.9
-7/-8	.0	*	*	.2	.5	.2	.0	.0	.0	.0	41	.1	.8
-9/-10	.0	*	*	.1	.1	*	.0	.0	.0	.0	16	*	.3
-11/-13	.2	.0	.0	*	*	*	.0	.0	.0	.0	11	.1	.2
-14/-16	.1	*	.0	.0	*	.0	.0	.0	.0	.0	6	*	.1
TOTAL	10		100		1788		256				4426	123	4303
PCT	.2	.6	2.3	10.5	40.4	39.1	5.8	.6	.2	.1	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6	.1	.1	.0	.0	.0	.0	.2
1-2	.1	.5	.2	.0	.0	.0	.8	.0	.2	.0	.0	.0	.0	.3
3-4	.0	.1	.4	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	*
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
7	.0	*	.2	.0	.0	.0	.2	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.9	.9	.0	.0	.0	2.2	.1	.5	.1	.0	.0	.0	.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1	.5	1.1	*	.0	.0	.0	1.6
1-2	.1	.4	.0	.0	.0	.0	.5	.5	4.9	2.2	.0	.0	.0	7.7
3-4	.0	.3	.2	.0	.0	.0	.5	*	4.0	7.2	.5	.0	.0	11.7
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.7	7.8	1.3	.0	.0	9.8
7	.0	*	.1	.0	.0	.0	.1	*	.2	3.9	2.3	*	.0	6.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	1.8	*	.0	2.9
10-11	.0	.0	*	*	.0	.0	*	.0	*	.2	1.0	.2	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	*	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.8	.4	*	.0	.0	1.3	1.1	11.2	22.5	8.0	.5	.0	43.2

PERIOD: (OVER-ALL) 1963-1976

MAY

AREA 0017 WALVIS BAY SW
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.9	.3	.0	.0	.0	4.4	.4	.5	*	.0	.0	.0	1.0
1-2	.7	8.1	2.2	.0	.0	.0	11.0	.2	2.6	.2	.0	.0	.0	2.9
3-4	*	4.4	5.8	.4	.0	.0	10.5	.0	.9	.3	.0	.0	.0	1.2
5-6	*	.7	4.5	.8	.0	.0	6.0	.0	.1	.3	*	.0	.0	.5
7	*	.1	2.6	.8	*	.0	3.6	.0	.0	.1	*	.0	.0	.1
8-9	.0	.1	.8	.5	*	.0	1.5	.0	*	*	.0	*	.0	.1
10-11	.0	.0	.2	.2	*	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	16.2	16.6	2.9	.1	.0	38.0	.6	4.1	1.0	.1	*	.0	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.3	.0	.0	.0	.0	.4	.2	.3	.0	.0	.0	.0	.5	
1-2	.1	1.5	.1	.0	.0	.0	1.7	.1	1.4	.1	.0	.0	.0	1.6	
3-4	.0	.4	.2	*	.0	.0	.6	.0	.3	.1	.0	.0	.0	.4	
5-6	.0	.1	.1	.0	.0	.0	.3	.0	*	.2	.0	.0	.0	.2	
7	.0	*	.1	.0	.0	.0	.1	.0	*	.1	*	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.3	.4	*	.0	.0	3.0	.2	2.1	.6	*	.0	.0	2.9	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.4	5.5	.3	.0	.0	.0	13.3	
1-2	2.3	19.3	4.9	.0	.0	.0	26.5	
3-4	.2	10.1	13.7	.8	.0	.0	24.8	
5-6	*	1.7	12.9	2.1	.0	.0	16.6	
7	*	.5	6.9	3.0	.1	.0	10.5	
8-9	.0	.2	1.7	2.3	.1	.0	4.3	
10-11	.0	.1	.5	1.2	.2	.0	2.0	
12	.0	*	.2	.6	*	.0	.8	
13-16	.0	.0	.2	.5	.1	.0	.7	
17-19	.0	.0	.0	.2	.1	.0	.3	
20-22	.0	.0	.1	*	.0	.0	.1	
23-25	.0	.0	.0	*	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.9	37.4	41.3	10.8	.6	.0	100.0	3265

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.5	4.7	6.0	4.3	2.7	2.2	.6	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	876	4
6-7	*	1.3	4.5	6.6	5.2	3.4	2.5	1.1	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1010	7
8-9	.0	.7	1.9	5.0	5.0	3.4	3.1	1.5	1.5	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	891	8
10-11	.0	.5	.6	1.6	2.6	1.8	1.3	.4	.9	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	393	8
12-13	.0	.0	1.1	.7	.9	.8	.8	.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	211	8
>13	.0	.0	.0	.6	.8	.4	.3	*	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	88	8
INDET	1.5	2.0	1.8	2.1	1.2	.9	.7	.3	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	411	5
TOTAL	116	355	619	810	716	497	362	162	161	61	12	8	1	0	0	0	0	0	0	0	3880	6
PCT	3.0	9.1	16.0	20.9	18.5	12.8	9.3	4.2	4.1	1.6	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1855-1975

JUNE

AREA 0017 WALVIS BAY SW
25.45 11.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	.9	.0	3.5	.0	.0	.0	.0	4.5	.9	.9	7.1	.0	.9	.5	85.1	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	2.6	.7	94.1	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.7	.0	4.2	3.1	90.2	
SE	.2	.4	.4	.0	.0	.0	.0	1.0	.3	.7	.3	.1	.5	.2	96.9	
S	.3	.8	.5	.0	.0	.0	.0	1.6	.4	.2	1.7	.1	.9	.1	95.0	
SW	.8	.9	1.0	.0	.0	.0	.0	2.5	3.1	.1	2.5	.3	.1	.0	91.4	
W	.6	.9	.8	.0	.0	.0	.0	2.3	1.9	.5	2.4	.0	.8	.0	92.1	
NW	3.2	1.7	1.1	.0	.0	.0	.0	5.9	.6	.9	1.7	1.9	1.2	.0	87.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.6	.0	.0	.0	.0	.6	.0	.6	4.5	.0	1.7	.0	92.6	
TOT PCT	.4															
TOT OBS:	4936	.6	.6	.0	.0	.0	.0	1.6	.6	.5	1.4	.2	.8	.2	94.7	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.8	.9	.9	.0	.0	.0	.0	2.4	.9	1.3	1.4	.0	.5	.2		93.2
06009	.3	.6	.9	.0	.0	.0	.0	1.9	.9	.2	2.2	.2	.7	.1		93.9
12015	.2	.4	.5	.0	.0	.0	.0	1.1	.3	.1	1.9	.4	1.4	.2		94.7
18021	.4	.4	.3	.0	.0	.0	.0	1.2	.4	.5	.9	.2	.8	.4		95.7
TOT PCT	.4															
TOT OBS:	5165	.6	.7	.0	.0	.0	.0	1.6	.6	.5	1.6	.2	.9	.2		94.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	1.3	.4	.1	*	.0		2.4	7.3		1.7	3.2	3.1	4.3	2.7	2.4	1.8	2.3
NE	.4	.8	.2	.0	.0	.0		1.5	5.9		.9	1.1	2.1	1.2	2.2	1.0	.7	2.7
E	.5	1.8	.6	.1	*	.0		2.9	8.4		2.5	3.3	4.2	2.9	3.1	1.8	2.0	4.0
SE	1.3	10.3	17.7	8.3	.9	.0		38.5	15.8		39.7	33.1	40.4	31.5	40.6	29.9	39.2	35.8
S	2.4	15.0	12.4	2.8	.3	.0		32.8	11.7		32.1	34.8	31.7	50.4	29.8	35.7	33.1	40.6
SW	.9	5.4	2.3	.3	*	.0		8.9	9.0		9.7	9.6	7.3	2.5	7.6	14.0	10.4	6.3
W	.6	2.8	.9	.1	.0	.0		4.4	7.9		4.3	4.7	3.5	1.2	4.7	6.9	4.8	1.7
NW	.7	2.5	1.3	.1	.0	.0		4.7	8.9		4.0	6.1	3.7	4.9	5.8	5.2	4.6	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0		4.9	4.3	3.9	1.2	3.6	3.0	3.3	5.8
TOT OBS	766	2709	2428	800	82	0	6785		12.0		1374	446	1370	173	1479	493	1330	120
TOT PCT	11.3	39.9	35.8	11.8	1.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.3	.9	.1	*	*		2.4	7.3	2.1	3.2	2.6	1.8		
NE	1.0	.5	*	.0	.0		1.5	5.9	1.0	2.0	1.9	.9		
E	1.5	1.2	.3	.1	.0		2.9	8.4	2.7	4.1	2.8	2.2		
SE	5.1	15.6	14.5	3.3	.1		38.5	15.8	38.1	39.4	37.9	39.0		
S	8.5	16.7	6.5	1.1	*		32.8	11.7	32.8	33.8	31.3	33.7		
SW	3.3	4.7	.8	.1	*		8.9	9.0	9.7	6.7	9.2	10.0		
W	2.2	2.0	.2	*	.0		4.4	7.9	4.4	3.3	5.3	4.6		
NW	1.8	2.5	.4	.0	.0		4.7	8.9	4.5	3.9	5.7	4.3		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.8						3.8	.0	4.7	3.6	3.4	3.5		
TOT OBS	1931	2990	1547	306	11	6785		12.0	1820	1943	1972	1450		
TOT PCT	28.5	44.1	22.8	4.5	.2		100.0		100.0	100.0	100.0	100.0		

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PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1855-1975AREA 0017 WALVIS BAY SW
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0603	4.7	7.4	39.6	36.4	10.9	1.0	.0	11.8	100.0	1820
0609	3.6	7.8	40.8	35.2	11.5	1.2	.0	11.8	100.0	1543
1215	3.4	7.5	38.1	37.0	12.7	1.2	.0	12.3	100.0	1972
1821	3.5	7.0	42.0	34.0	12.0	1.4	.0	12.1	100.0	1450
TOT	261	505	2709	2424	800	82	0	12.0		6785
PCT	3.8	7.4	39.9	35.4	11.8	1.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.2	.5	.5		4.2
NE	.8	.2	.1	.2		2.4
E	2.0	.3	.3	.2		1.9
SE	20.6	8.3	10.8	4.2		3.2
S	14.7	4.9	7.2	4.7		3.4
SW	3.0	1.2	2.0	1.2		3.9
W	1.6	.7	1.0	.4		3.6
NW	1.3	.7	1.0	.8		4.3
VAR	.0	.0	.0	.0		.0
CALM	1.8	.2	.8	.7		3.4
TOT OBS	1896	686	968	531	4081	3.3
TOT PCT	46.5	16.8	23.7	13.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.1	.0	.0	.2	.3	.1	*	*	*	*	1.1	
*	.0	.0	*	.1	*	*	*	*	*	1.0	
.0	.0	*	.1	.2	.1	.1	.0	*	.0	2.4	
.1	*	.4	1.9	5.8	3.1	1.2	.4	.1	.1	30.7	
.4	*	.4	1.5	4.8	2.2	.9	.3	.2	.1	20.9	
*	*	.1	.5	1.4	.6	.2	.1	.1	.1	4.5	
*	*	.2	.2	.4	.3	.1	*	*	*	2.6	
.1	.0	*	.3	.5	.3	.1	*	*	*	2.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	*	.2	.4	.6	*	.0	.0	.0	2.2	
36	3	40	198	560	306	104	36	15	15	2768	4081
.9	.1	1.0	4.9	13.7	7.5	2.5	.9	.4	.4	67.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	3.6	4.1	4.2	4.2	4.2	4.2	4.2	4.2
= OR >2000	10.1	11.4	11.7	11.7	11.7	11.7	11.7	11.7
= OR >1000	22.1	24.9	25.3	25.4	25.4	25.4	25.4	25.4
= OR >600	25.9	29.5	30.1	30.2	30.2	30.2	30.2	30.2
= OR >300	26.4	30.4	31.1	31.2	31.2	31.2	31.2	31.2
= OR >150	26.5	30.4	31.1	31.2	31.2	31.2	31.2	31.2
= OR >0	26.6	30.6	31.6	31.6	31.6	31.8	32.0	32.1
TOTAL	1128	1298	1340	1343	1343	1350	1360	1362

TOTAL NUMBER OF OBS: 4247

PCT FREQ NH <5/8: 67.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
30.2	10.7	10.3	9.4	6.6	6.0	6.2	8.3	11.4	.6	4409

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1855-1975

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TABLE 8

AREA 0017 WALVIS BAY SW
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PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	NO PCP	.1	.0	.0	.1	.3	.1	.1	*	.0	.1	.7	
	TOT %	.1	.0	.0	.1	.3	.1	.1	*	.0	.1	.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	*	*	.0	*	.0	.0	.1	
	TOT %	.0	.0	.0	.0	*	*	.0	*	.0	.0	.1	
1<2	PCP	*	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.2	
2<5	PCP	*	.0	.0	*	.1	.0	.0	.1	.0	.0	.2	
	NO PCP	.1	*	.2	.3	.9	.1	.1	.1	.0	.1	1.9	
	TOT %	.1	*	.2	.4	.9	.1	.1	.2	.0	.1	2.1	
5<10	PCP	.1	.0	.0	.2	.2	.1	*	.2	.0	*	.8	
	NO PCP	.6	.3	.6	5.2	5.3	1.1	.7	.8	.0	.7	15.3	
	TOT %	.7	.3	.6	5.4	5.6	1.2	.7	.9	.0	.7	16.1	
10+	PCP	.0	.0	.0	.2	.2	.1	*	*	.0	.0	.5	
	NO PCP	1.2	1.0	2.1	35.7	25.3	6.1	3.0	3.0	.0	2.7	80.2	
	TOT %	1.2	1.0	2.1	36.0	25.5	6.2	3.1	3.1	.0	2.7	80.7	
TOT OBS		4931											
TOT PCT		2.1	1.4	2.9	41.8	32.3	7.6	4.0	4.3	.0	3.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	*	*	*	*	*	.0	.1	.3	
	4-10	.1	.0	.0	.1	.3	*	*	*	.0	.0	.5	
	11-21	*	.0	.0	*	.1	*	*	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.1	.4	.1	.1	*	.0	.1	.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	*	*	*	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	*	.0	*	.0	.0	.1	
1<2	0-3	*	.0	.0	.0	*	*	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	11-21	*	*	*	*	.0	.0	.0	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	*	*	.0	*	.0	*	.2	
2<5	0-3	.1	*	.0	*	.2	*	.0	.1	.0	.1	.4	
	4-10	*	*	.1	.1	.4	.1	*	.1	.0	.0	.8	
	11-21	*	.0	.1	.1	.2	*	*	.1	.0	.0	.5	
	22+	.0	.0	.0	.1	.1	*	*	.0	.0	.0	.3	
	TOT %	.1	*	.2	.4	.9	.1	.1	.2	.0	.1	2.0	
5<10	0-3	.2	.1	.1	.3	.3	.1	.1	.1	.0	.7	2.0	
	4-10	.3	.1	.3	1.2	2.5	.8	.4	.5	.0	.0	6.2	
	11-21	.1	.1	.1	2.4	2.0	.2	.1	.3	.0	.0	5.3	
	22+	.0	.0	.1	1.5	.5	*	*	.0	.0	.0	2.0	
	TOT %	.6	.3	.5	5.3	5.4	1.1	.7	.9	.0	.7	15.5	
10+	0-3	.2	.3	.3	1.0	1.6	.6	.4	.4	.0	2.7	7.4	
	4-10	.7	.6	1.3	9.6	11.6	4.1	2.1	2.0	.0	.0	32.0	
	11-21	.2	.1	.4	17.1	10.6	1.4	.5	.7	.0	.0	31.1	
	22+	*	.0	.1	8.4	2.0	.1	*	.1	.0	.0	10.8	
	TOT %	1.2	.9	2.1	36.0	25.9	6.3	3.1	3.3	.0	2.7	81.3	
TOT OBS		5394											
TOT PCT		2.0	1.3	2.8	41.9	32.6	7.7	3.9	4.4	.0	3.5	100.0	

JUNE

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1855-1975AREA 0017 WALVIS BAY SW
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.0	.0	.8	4.9	12.8	6.9	2.5	.8	.6	.3	30.4	69.6	1047
06009	1.4	.3	1.6	5.7	16.0	9.9	2.7	1.0	.2	.4	39.3	60.7	1118
12015	.7	.0	.8	4.3	13.5	5.8	2.5	.8	.3	.4	29.1	70.9	1164
18021	.3	.0	.8	3.6	11.0	7.3	2.5	.8	.3	.4	27.1	72.9	1017
TOT PCT	37 .9	3 .1	43 1.0	204 4.7	582 13.4	325 7.5	110 2.5	36 .8	15 .3	17 .4	1372 31.6	2974 68.4	4346 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	.0	.1	2.1	16.2	81.0	1429
06009	1.5	.1	.3	2.7	16.3	79.0	1365
12015	.8	.0	.3	1.5	16.4	80.9	1545
18021	.9	.1	.2	1.9	14.6	82.6	1285
TOT PCT	54 1.0	3 .1	13 .2	114 2.0	893 15.9	4547 80.8	5624 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.9	1.7	7.6	24.0	68.4	1024
06009	1.5	3.4	11.3	30.3	58.5	1093
12015	.7	1.7	6.9	23.0	70.0	1137
18021	.3	1.2	6.5	22.1	71.4	993
TOT PCT	36 .8	85 2.0	345 8.1	1058 24.9	2844 67.0	4247 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	*	.0	*	*	.0	.0	.0	4	.1
70/74	*	*	*	.1	.2	.3	.2	*	42	1.0
65/69	.0	.1	.1	.7	2.9	4.9	4.7	1.8	632	15.3
60/64	.0	*	.2	2.1	10.1	22.1	22.9	9.1	2753	68.4
55/59	.0	.0	.0	.1	.9	2.7	6.7	4.4	613	14.8
50/54	.0	.0	.0	.0	*	.1	.6	1.4	86	2.1
45/49	.0	.0	.0	.0	*	*	*	.3	14	.3
TOTAL PCT	1 *	7 .2	16 .4	124 3.0	588 14.2	1253 30.2	1452 35.0	703 17.0	4144	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.1	.1	*	.4	.2	*	.1	.1	.0	*
.3	.4	.6	6.3	3.9	1.1	.9	1.0	.0	.8
.8	.4	1.8	31.8	18.8	5.7	2.7	2.5	.0	1.9
.4	.3	.3	5.4	6.4	.9	.2	.5	.0	.4
.1	.0	*	.2	1.3	.1	*	.1	.0	.3
*	.0	.0	.1	.2	.0	.0	.0	.0	*
1.7	1.2	2.7	44.2	30.9	7.7	4.0	4.2	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	67	65	61	54	51	48	60.5	1838
06009	83	69	65	61	54	50	46	60.9	1564
12015	79	73	69	63	57	53	49	63.4	1991
18021	82	68	66	62	55	52	46	61.3	1477
TOT	83	71	67	62	55	51	46	61.6	6870

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.1	2.9	9.7	28.1	38.9	20.4	81	1119
06009	.0	3.4	12.8	27.9	36.9	19.0	80	1026
12015	.0	5.3	19.7	34.4	29.4	11.2	77	1123
18021	.0	2.6	13.1	30.4	35.0	18.8	80	1030
TOT	1	154	596	1299	1505	743	80	4298

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1855-1975

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AREA 0017 WALVIS BAY SW
29.45 11.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.0	4	.0	.1
14/16	.0	.0	.0	.0	.0	.2	.1	.0	.0	15	.0	.3
11/13	.0	.0	.0	.0	.0	.1	.0	.0	.0	5	.0	.1
9/10	.0	.0	.0	.0	.2	.2	.1	.0	.0	22	.0	.2
7/8	.0	.0	.0	.2	.1	.4	.1	.0	.0	44	.0	1.0
6	.0	.0	.0	.2	.5	.2	.2	.0	.0	52	.0	1.1
5	.0	.0	.1	.5	.9	.7	.3	.0	.0	118	.1	2.5
4	.0	.0	.2	.8	1.3	.9	.2	.0	.0	155	.0	3.4
3	.0	.0	.2	.9	1.4	1.4	.4	.0	.0	198	.1	4.3
2	.0	.1	.5	1.2	2.9	1.9	.2	.0	.0	304	.1	6.5
1	.0	.2	.4	2.3	5.5	2.7	.1	.0	.0	512	.1	11.1
0	.0	.3	.7	3.3	9.1	2.5	.1	.0	.0	733	.1	15.9
-1	.0	.2	.5	3.0	12.0	1.7	.0	.0	.0	797	.3	17.2
-2	.1	.1	.2	3.8	9.3	.7	.0	.0	.0	646	.2	13.9
-3	.0	.0	.3	3.2	6.0	.4	.0	.0	.0	457	.2	9.8
-4	.0	.1	.2	2.3	2.6	.2	.0	.0	.0	249	.2	5.3
-5	.0	.0	.1	1.2	1.6	.2	.0	.0	.0	145	.1	3.1
-6	.0	.0	.0	.4	.5	.0	.0	.0	.0	45	.0	.9
-7/-8	.0	.0	.0	.4	.7	.0	.0	.0	.0	51	.0	1.1
-9/-10	.0	.0	.0	.1	.2	.0	.0	.0	.0	11	.0	.2
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
TOTAL	6	51	162	1084	2509	652	16	1	4571	72	4499	
PCT	.1	1.1	3.5	23.8	54.9	14.3	1.9	.4	*	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.2	.1	.0	.0	.0	.8	.2	.1	.0	.0	.0	.0	.4
1-2	.1	.5	.1	.0	.0	.0	.7	.1	.4	.1	.0	.0	.0	.6
3-4	.0	.2	.1	.0	.0	.0	.3	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.0	.4	*	.0	.0	2.0	.4	.6	.2	.0	.0	.0	1.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.5	.5	1.0	.1	.0	.0	.0	1.7
1-2	.0	.9	.0	.0	.0	.0	1.0	.0	5.8	2.0	.0	.0	.0	8.3
3-4	.0	.3	.2	.0	.0	.0	.5	.1	3.3	6.3	.3	.0	.0	10.0
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.6	6.2	1.9	.0	.0	8.7
7	.0	.0	.0	.1	.0	.0	.1	.0	.1	4.0	2.0	.2	.0	6.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.9	.3	.0	3.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.1	.2	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.2	.0	1.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.1	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.4	.5	.1	.0	.0	2.3	1.1	10.8	20.5	8.9	1.2	.0	42.6

PERIOD: (OVER-ALL) 1963-1975

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AREA 0017 WALVIS BAY SW
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.5	2.6	.1	.0	.0	.0	4.2	.4	.5	.0	.0	.0	.0	.9	
1-2	.5	8.5	2.5	.0	.0	.0	11.5	.3	2.6	.4	.0	.0	.0	3.3	
3-4	.1	3.5	4.8	.3	.0	.0	8.8	.0	1.1	.9	*	.0	.0	2.1	
5-6	.0	.5	3.4	.5	*	.0	4.4	.0	.2	.3	*	.0	.0	.6	
7	.0	.1	1.2	.6	.1	.0	1.9	.0	.1	.2	*	.0	.0	.3	
8-9	.0	.0	.5	.2	.1	.0	.8	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	*	.2	.3	*	.0	.6	.0	.0	*	.0	.0	.0	*	
12	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	15.2	13.0	2.1	.3	.0	37.6	.8	4.5	1.8	.1	.0	.0	7.1	

	W							NW							TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.5	.0	.0	.0	.0	.8	.3	.3	.0	.0	.0	.0	.6	
1-2	.1	1.6	.2	.0	.0	.0	1.9	.2	1.5	.2	.0	.0	.0	1.9	
3-4	*	.3	.1	.0	.0	.0	.5	*	.6	.4	*	.0	.0	1.0	
5-6	.0	.1	.2	*	.0	.0	.3	.0	*	.2	*	.0	.0	.3	
7	.0	*	*	.0	.0	.0	.1	.0	.0	.2	*	.0	.0	.2	
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	*	.1	.0	.0	.1	
10-11	.0	*	*	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.5	.6	*	.0	.0	3.6	.5	2.3	1.1	.2	.0	.0	4.1	

95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.1	5.5	.3	.0	.0	.0	15.9	
1-2	2.2	21.4	5.5	.0	.0	.0	29.2	
3-4	.2	9.1	12.6	.7	.0	.0	22.6	
5-6	.0	1.4	10.2	2.5	.1	.0	14.2	
7	*	.3	5.5	2.7	.3	.0	8.8	
8-9	.0	*	2.1	2.1	.4	.0	4.6	
10-11	*	.1	.5	1.3	.3	.0	2.2	
12	.0	.0	.1	.9	.2	.0	1.2	
13-16	.0	.0	.1	.8	.2	.0	1.0	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.6	37.9	36.9	11.1	1.5	.0	100.0	3131

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	5.0	6.5	3.7	2.3	1.3	1.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	809	4
6-7	.0	.7	4.1	5.2	5.4	3.3	2.5	1.1	.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	885	7
8-9	.0	.5	2.4	3.6	4.5	4.2	2.4	1.9	2.1	.5	.2	*	.0	.0	.0	.0	.0	.0	.0	837	8
10-11	.0	.6	.8	1.8	2.2	1.9	1.4	1.2	1.1	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	451	9
12-13	.0	.0	.8	.7	.9	.6	1.1	.9	.8	.4	.2	.0	*	.0	.0	.0	.0	.0	.0	239	9
>13	.0	.0	.0	.4	.4	.4	.5	.4	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	112	11
INDET	2.4	.8	1.4	1.6	1.4	1.3	.7	.3	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	394	5
TOTAL	141	288	591	636	638	487	358	226	226	91	30	12	3	0	0	0	0	0	0	3727	7
PCT	3.8	7.7	15.9	17.1	17.1	13.1	9.6	6.1	6.1	2.4	.8	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1855-1975

JULY

AREA 0017 WALVIS BAY SW
25.45 11.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	12.4	.0	3.4	.0	83.5
NE	.4	.0	.0	.0	.0	.0	.0	.4	.0	.0	4.7	.0	4.3	1.6	89.0
E	.6	.0	.0	.0	.0	.0	.0	.6	.0	.8	.0	1.3	3.0	.0	94.4
SE	.1	.3	*	.0	.0	.0	.0	.5	.4	.2	1.1	.1	1.9	.2	96.6
S	.3	.3	.2	.0	.0	.0	.0	.9	.6	.3	2.3	.1	1.8	.0	94.0
SW	.1	2.0	1.0	.0	.0	.0	.0	3.1	1.1	1.1	.9	.0	1.4	.3	92.2
W	.0	3.3	.0	.0	.0	.0	.0	3.3	1.5	.0	1.8	.5	.4	.0	92.5
NW	2.1	.0	1.6	.0	.0	.0	.0	3.7	.7	.3	5.2	.0	2.1	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	.6	.6	.0	.0	.0	.0	1.8	.0	.0	7.4	.0	1.8	.0	89.0
TOT PCT	.3	.5	.2	.0	.0	.0	.0	1.0	.6	.3	2.0	.1	1.5	.1	94.4
TOT OBS:	5448														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.4	.5	.1	.0	.0	.0	.0	1.0	.2	.8	2.5	.2	1.1	.0	94.1
06009	.3	.6	.5	.0	.0	.0	.0	1.5	.6	.3	3.2	.2	1.4	.1	92.7
12015	.0	.6	.3	.0	.0	.0	.0	.9	.5	.0	2.2	.1	2.2	.1	94.0
18021	.3	.2	.0	.0	.0	.0	.0	.5	1.0	.2	1.5	.1	1.1	.2	95.3
TOT PCT	.2	.5	.2	.0	.0	.0	.0	1.0	.6	.3	2.3	.1	1.5	.1	94.0
TOT OBS:	5640														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21
N	.4	1.1	.4	*	*	.0		1.9	7.7	1.1	2.0	1.6	2.9	2.8	2.3	1.7	.0	
NE	.3	.7	.2	*	.0	.0		1.1	6.6	.9	.9	1.1	2.9	1.5	.5	1.0	1.7	
E	.3	1.4	.5	.1	.0	.0		2.3	8.6	2.0	3.2	3.3	3.2	2.1	2.0	1.5	2.4	
SE	1.1	9.4	20.1	9.1	1.2	*		41.0	16.6	44.3	40.0	40.5	37.5	42.5	33.8	40.3	40.8	
S	1.8	13.3	14.4	3.8	.4	*		33.8	12.8	32.9	32.3	33.5	43.0	30.6	37.4	35.5	44.1	
SW	1.0	5.2	1.9	.2	*	.0		8.3	8.8	7.8	9.0	8.7	5.4	7.4	12.6	8.9	2.6	
W	.6	2.5	.7	*	.0	.0		3.9	7.6	3.7	3.8	3.8	.7	4.5	4.6	4.0	2.1	
NW	.7	2.3	.8	.1	.0	.0		4.0	8.4	3.4	3.7	3.6	1.5	5.4	4.6	4.1	2.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.5							3.5	.0	4.0	5.1	3.9	2.8	3.2	2.2	3.0	4.2	
TOT OBS	731	2673	2893	998	130	4	7429		12.9	1409	468	1494	246	1882	534	1452	144	
TOT PCT	9.8	36.0	38.9	13.4	1.7	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.0	.8	.1	*	.0		1.9	7.7	1.3	1.8	2.7	1.5
NE	.7	.3	*	.0	.0		1.1	6.6	.9	1.3	1.3	1.1
E	1.3	.7	.3	*	.0		2.3	8.6	2.3	3.3	2.1	1.5
SE	4.2	16.6	14.0	3.9	.3		41.0	16.6	43.2	40.1	40.4	40.3
S	7.2	16.9	8.4	1.3	.1		33.8	12.8	32.8	34.8	32.3	36.2
SW	3.4	4.1	.8	.1	.0		8.3	8.8	8.1	8.2	8.7	8.4
W	1.9	1.8	.2	*	.0		3.9	7.6	3.7	3.4	4.5	3.8
NW	1.9	1.8	.3	.1	*		4.0	8.4	3.5	3.3	5.2	3.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5						3.5	.0	4.3	3.8	2.9	3.1
TOT OBS	1867	3192	1937	405	28	7429		12.9	1877	1740	2216	1596
TOT PCT	25.1	43.0	24.1	5.5	.4		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1855-1975

JULY

AREA 0017, WALVIS BAY SW
29.45 11.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.3	5.6	35.3	39.2	13.9	1.8	.1	13.0	100.0	1877
0600	3.8	7.2	36.6	38.7	12.1	1.5	.1	12.5	100.0	1740
1200	2.9	6.4	35.7	38.6	14.5	1.8	*	13.2	100.0	2216
1800	3.1	6.1	36.5	39.3	12.9	2.0	.0	13.0	100.0	1596
TOT	261	470	2573	2893	998	130	.4	12.9		7429
PCT	3.5	6.3	36.0	38.9	13.4	1.7	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.4	.2	.1	.6		4.9
NE	.5	.3	.1	.3		3.7
E	1.9	.3	.3	.2		1.8
SE	17.8	8.2	14.1	6.0		3.8
S	14.4	4.7	7.6	4.7		3.5
SW	2.9	1.1	2.0	1.5		4.0
W	1.3	.6	.9	.8		4.2
NW	1.4	.4	.8	.9		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.6	.2	.4	.7		3.1
TOT OBS	1810	686	1139	669	4304	3.7
TOT PCT	42.1	15.9	26.5	15.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 TOTAL ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.0	.1	.3	.1	.1	.0	*	*	.6	
NE	.0	.0	*	.1	.1	.1	*	*	.0	.0	.8	
E	.0	.0	*	.2	.1	.1	.0	*	.0	.0	2.2	
SE	.1	*	.3	2.5	7.4	5.7	1.2	.2	.3	.2	28.1	
S	.3	*	.4	1.6	4.9	2.3	.8	.3	.1	.2	20.5	
SW	*	.0	.1	.5	1.1	.7	.4	.1	.0	.1	4.4	
W	*	.0	.1	.4	.5	.3	.1	.0	.0	.0	2.1	
NW	.2	.0	.1	.2	.6	.4	.1	*	*	.0	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.3	.2	.1	.0	*	.0	1.8	
TOT OBS	40	3	43	246	657	429	122	29	20	20	2695	4304
TOT PCT	.9	.1	1.0	5.7	15.3	10.0	2.8	.7	.5	.5	62.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	# OR >10	# OR >5	# OR >2	# OR >1	# OR >1/2	# OR >1/4	# OR >50 YD	# OR >0
# OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
# OR >5000	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
# OR >3500	3.7	4.3	4.4	4.4	4.4	4.4	4.4	4.4
# OR >2000	12.4	14.0	14.1	14.1	14.1	14.1	14.1	14.1
# OR >1000	29.9	29.0	29.2	29.2	29.2	29.2	29.3	29.3
# OR >600	30.4	34.5	34.9	34.9	34.9	34.9	34.9	34.9
# OR >300	31.1	35.4	35.8	35.8	35.8	35.8	35.8	35.8
# OR >150	31.2	35.5	35.9	35.9	35.9	35.9	36.0	36.0
# OR >0	31.3	35.7	36.2	36.2	36.3	36.7	37.0	37.0
TOTAL	1391	1594	1607	1609	1612	1632	1641	1644

TOTAL NUMBER OF OBS: 4441

PCT FREQ NH <5/8: 63.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	27.3	9.1	10.3	8.6	7.2	5.3	8.6	9.4	13.4	.8	4643

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1855-1975

JULY

AREA 0017 WALVIS BAY SW
25.45 11.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.1	*	.0	.1	.3	*	*	.1	.0	.1	.8		
	TOT %	.1	*	.0	.1	.3	*	*	.1	.0	.1	.8		
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	*	.0	.0	*	*	*	*	*	.0	*	.1		
	TOT %	*	.0	.0	*	*	*	*	*	.0	*	.1		
1<2	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*		
	NO PCP	.0	*	*	*	*	.0	.0	*	.0	*	.2		
	TOT %	.0	*	*	*	.1	.0	.0	*	.0	*	.2		
2<5	PCP	.0	*	*	*	*	*	.0	.0	.0	*	.1		
	NO PCP	*	*	*	.4	.8	.1	*	*	.0	.1	1.6		
	TOT %	*	*	*	.4	.8	.1	*	*	.0	.1	1.7		
5<10	PCP	.0	.0	.0	.1	.1	.1	.1	.1	.0	*	.6		
	NO PCP	.4	.1	.5	6.2	6.2	1.1	.3	.6	.0	.7	16.3		
	TOT %	.4	.1	.5	6.3	6.3	1.3	.4	.7	.0	.7	16.8		
10+	PCP	.0	.0	.0	.1	.1	.1	.1	*	.0	*	.3		
	NO PCP	.9	1.0	1.9	37.2	26.0	5.9	2.9	2.5	.0	2.0	80.0		
	TOT %	.9	1.0	1.9	37.3	26.1	5.9	2.9	2.5	.0	2.0	80.4		
TOT OBS														5438
TOT PCT		1.5	1.2	2.4	44.2	33.6	7.3	3.4	3.4	.0	3.0	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	*	.0	.0	*	.0	.0	*	.0	.1	.2		
	4-10	.1	*	.0	.1	.2	*	*	*	.0		.6		
	11-21	*	.0	.0	*	*	.0	.0	.0	.0		.1		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT %	.1	*	.0	.1	.3	*	*	.1	.0	.1	.8		
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	*	.1		
	4-10	*	*	.0	*	*	*	.0	.0			.1		
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*		
	TOT %	*	*	.0	*	*	*	*	*	.0	*	.2		
1<2	0-3	.0	.0	.0	*	.0	.0	.0	*	.0	*	.1		
	4-10	.0	*	*	*	.1	.1	.0	.0	.0		.2		
	11-21	.0	*	.0	.0	*	.0	.0	.0	.0		*		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0		
	TOT %	.0	*	*	*	.1	.1	.0	*	.0	*	.3		
2<5	0-3	*	*	*	*	.1	*	.1	*	.0	.2	.5		
	4-10	*	*	.0	.2	.4	*	.0	*	.0		.6		
	11-21	*	*	*	.2	.2	*	.0	.0	.0		.4		
	22+	.0	.0	.0	.1	.1	*	.0	.0	.0		.2		
	TOT %	.1	*	*	.4	.8	.1	.1	*	.0	.2	1.7		
5<10	0-3	*	*	.1	.2	.4	.2	.1	.1	.0	.7	1.9		
	4-10	.2	.1	.3	1.3	1.8	.6	.3	.4	.0		5.0		
	11-21	.1	*	.1	2.8	3.1	.4	.1	.2	.0		7.0		
	22+	.0	.0	*	1.7	.8	*	*	*	.0		2.6		
	TOT %	.4	.1	.5	6.0	6.1	1.3	.4	.7	.0	.7	16.4		
10+	0-3	.2	.2	.3	.9	1.3	.6	.4	.5	.0	2.0	6.4		
	4-10	.5	.6	1.1	8.3	10.8	4.1	2.0	1.7	.0		29.0		
	11-21	.2	.1	.4	18.8	11.3	1.1	.4	.5	.0		32.8		
	22+	.0	*	.1	9.2	2.9	.1	*	*	.0		12.4		
	TOT %	.9	.9	1.8	37.1	26.2	6.0	2.9	2.6	.0	2.0	80.6		
TOT OBS														6021
TOT PCT		1.5	1.1	2.4	43.8	33.5	7.5	3.4	3.5	.0	3.2	100.0		

JULY

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1855-1975AREA 0017 WALVIS BAY SW
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.3	.0	.7	4.3	12.1	9.0	2.1	.5	.2	.7	30.8	69.2	1061
06009	1.8	.3	1.3	0.6	18.4	11.5	3.3	.8	.5	.3	44.8	55.3	1200
12015	.6	.0	1.0	4.8	16.2	9.1	2.9	.8	.7	.5	36.5	63.5	1226
18021	.4	.1	.8	0.2	11.7	8.6	2.6	.6	.4	.3	31.7	68.3	1060
TOT	47	5	43	240	672	437	124	70	70	20	1648	2899	4547
PCT	1.0	.1	.9	5.5	14.8	9.6	2.7	.7	.4	.4	36.2	63.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	.2	.4	1.2	15.1	81.8	1483
06009	1.5	.2	.4	3.1	17.8	77.0	1564
12015	.6	.3	.4	1.5	18.4	78.8	1763
18021	.6	.0	.1	1.1	14.7	83.9	1405
TOT	62	11	20	110	1026	4986	6215
PCT	1.0	.2	.3	1.8	16.5	80.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.4	2.1	7.4	25.1	67.6	1033
06009	1.9	3.5	12.6	35.1	52.4	1178
12015	.6	1.8	7.8	30.2	62.1	1199
18021	.4	1.4	8.5	24.6	66.8	1031
TOT	47	98	405	1288	2748	4441
PCT	1.1	2.2	9.1	29.0	61.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	*	*	.0	.0	.0	.0	2	*
75/79	.0	*	.0	.0	*	*	.0	.0	3	.1
70/74	.0	*	.1	*	.1	.2	.1	*	25	.6
65/69	.0	.1	*	.3	.9	1.9	1.1	.2	200	4.5
60/64	.0	.0	.2	.9	8.7	20.5	20.3	7.5	2600	58.1
55/59	.0	.0	*	.4	2.7	9.1	13.7	6.8	1462	32.7
50/54	.0	.0	.0	.0	*	.2	1.3	2.0	158	3.5
45/49	.0	.0	.0	.0	*	*	.1	.4	23	.5
TOTAL	0	6	15	75	555	1427	1636	759	4473	100.0
PCT	.0	.1	.3	1.7	12.4	31.9	36.6	17.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	.0	.0	.0	.0
.0	.0	.0	.0	.0	*	.0	.0	.0	*
.0	*	*	.2	.2	.1	.0	*	.0	.1
.1	.2	.2	2.0	1.1	.4	.2	.2	.0	.1
.5	.5	1.5	30.1	15.1	4.5	2.5	2.5	.0	1.1
.6	.4	.5	14.3	12.4	2.3	.9	.6	.0	.8
.3	*	*	.3	1.9	.1	*	.2	.0	.6
.0	*	*	*	.4	.0	.0	.0	.0	*
1.4	1.1	2.3	46.8	31.1	7.4	3.6	3.5	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	64	63	59	52	50	46	58.8	1915
06009	81	66	64	60	52	48	45	59.2	1768
12015	80	72	68	62	55	53	45	61.7	2247
18021	74	66	64	60	54	51	46	59.6	1631
TOT	81	69	65	60	54	50	45	59.9	7561

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	9.7	28.3	40.6	20.1	82	1175
06009	.0	1.8	10.5	30.0	35.9	21.7	81	1136
12015	.0	4.2	17.7	36.7	31.7	9.7	77	1212
18021	.0	1.1	11.3	31.2	38.2	18.2	81	1088
TOT	0	99	571	1458	1685	798	80	4611

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1859-1975

JULY

AREA 0017 WALVIS BAY SW
29.45 11.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WU FOG
23/25	.0	.0	.0	.0	.0	.0	.0	*	*	3	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	*	.1	*	6	.0	.1
14/16	.0	.0	.0	.0	.0	*	.1	*	*	9	*	.2
11/13	.0	.0	.0	.0	*	.2	*	.0	.0	13	*	.2
9/10	.0	.0	*	*	.2	.1	.1	.0	.0	25	*	.5
7/8	.0	.0	*	.3	.5	.3	.1	.0	.0	67	.1	1.3
6	.0	.0	*	.2	.4	.1	*	.0	.0	40	*	.7
5	.0	.0	.2	.6	1.1	.4	.1	.0	.0	122	*	2.4
4	.0	*	.4	.8	1.0	.6	.1	.0	.0	149	*	2.9
3	.0	.1	.5	.9	1.6	.7	*	.0	.0	206	.1	3.9
2	*	.1	.9	1.6	3.3	.6	*	.0	.0	335	.3	6.3
1	*	.4	.9	3.9	5.4	.4	*	.0	.0	565	.3	10.8
0	*	.5	1.0	6.0	8.1	.3	.0	.0	.0	811	.4	15.5
-1	.1	.3	.9	9.6	8.1	.2	*	.0	.0	982	.5	18.7
-2	.1	.2	1.1	8.4	5.0	.2	.0	.0	.0	762	.3	14.6
-3	.0	.1	.7	7.0	2.1	.1	.0	.0	.0	510	.2	9.8
-4	*	.1	.4	3.3	1.0	*	.0	.0	.0	252	.1	4.8
-5	*	.1	.4	1.8	.6	*	.0	.0	.0	151	*	2.9
-6	.0	.0	.2	.6	.1	.0	.0	.0	.0	49	.0	1.0
-7/-8	.0	.0	.1	.3	.2	*	.0	.0	.0	31	*	.6
-9/-10	.0	.0	*	.2	.1	.0	.0	.0	.0	13	.0	.3
-11/-13	*	.0	.0	*	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	18	97	390	2340	222	37	6	4	5106	125	4981	
PCT	.4	1.9	7.6	45.8	39.0	4.3	.7	.1	100.0	2.4	97.6	

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	.3
1-2	*	.4	.1	.0	.0	.0	.5	*	.4	*	.0	.0	.0	.5
3-4	.0	.2	.1	.0	.0	.0	.2	.0	.1	.1	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1	*	*	.1	.0	.0	.0	.1
7	*	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.3	.0	.0	.0	1.2	.1	.7	.2	*	.0	.0	1.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.5	1.0	.1	.0	.0	.0	1.5
1-2	.1	.7	*	.0	.0	.0	.8	.5	4.4	1.8	.0	.0	.0	5.7
3-4	.0	.4	.4	.1	.0	.0	.9	.0	3.5	7.7	.7	.0	.0	11.9
5-6	.0	.1	.1	.0	.0	.0	.2	*	.9	7.3	4.3	.1	.0	10.6
7	.0	.0	.1	.1	.0	.0	.1	.0	.2	4.6	2.2	.1	.0	7.0
8-9	.0	.0	*	*	.0	.0	.1	.0	*	1.2	1.9	.3	.0	3.5
10-11	.0	.0	*	*	.0	.0	.1	.0	*	.5	1.6	.2	.0	2.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.7	.2	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	.7	.3	.0	.0	2.8	1.0	10.0	23.3	9.9	1.2	.0	45.3

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0017 WALVIS BAY SW
25.45 11.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.1	3.0	.1	.0	.0	.0	4.3	.3	.6	*	.0	.0	.0	.9	
1-2	.5	7.2	2.4	.0	.0	.0	10.1	.3	2.5	.2	.0	.0	.0	3.1	
3-4	.1	3.0	5.0	.5	.0	.0	8.6	*	.9	.5	.0	.0	.0	1.5	
5-6	.0	.6	3.8	.4	*	.0	4.9	.0	.1	.2	.0	.0	.0	.4	
7	.0	.1	1.6	1.1	*	.0	2.8	.0	*	.1	.0	.0	.0	.1	
8-9	.0	.1	.4	.4	.7	.0	1.1	.0	.0	.1	*	.0	.0	.2	
10-11	.0	*	.3	.5	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	*	.2	*	.0	.7	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	*	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	14.0	13.7	3.3	.3	.0	33.0	.6	4.2	1.2	.1	.1	.0	6.2	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.4	.5	.0	.0	.0	.0	.8	.4	.5	*	.0	.0	.0	.9		
1-2	.2	1.5	.1	.0	.0	.0	1.8	.2	1.2	*	.0	.0	.0	1.5		
3-4	.1	.4	.1	.0	.0	.0	.6	.0	.5	.2	.0	.0	.0	.7		
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1		
8-9	.0	*	.0	.0	.0	.0	*	.0	.1	.0	.0	.0	.0	.1		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.6	2.4	.4	.0	.0	.0	3.4	.6	2.2	.4	.1	.0	.0	3.3	96.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.1	6.3	.3	.0	.0	.0	.0	14.6
1-2	2.1	18.2	4.6	.0	.0	.0	.0	24.9
3-4	.2	8.6	13.9	1.3	.0	.0	.0	24.1
5-6	.1	1.7	11.6	2.6	.1	.0	.0	16.1
7	*	*	6.2	3.3	.1	.0	.0	9.9
8-9	.0	.1	1.8	2.4	.4	.0	.0	4.7
10-11	.0	*	.9	2.2	.2	.0	.0	3.2
12	.0	.0	.1	.6	.1	.0	.0	.8
13-16	.0	*	*	.8	.3	.0	.0	1.1
17-19	.0	.0	.0	.2	.1	.0	.0	.4
20-22	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	10.4	35.3	39.3	13.4	1.6	.0	100.0	3451

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.7	4.1	6.2	3.5	1.9	.7	.8	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	790	4
6-7	*	.4	4.3	5.3	5.4	3.5	2.6	1.4	1.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	996	7
8-9	*	.4	1.9	3.5	5.3	3.1	3.4	1.5	2.3	.8	.2	*	*	*	.0	.0	.0	.0	.0	.0	910	8
10-11	.0	.8	.8	.9	2.1	2.1	2.0	1.3	1.4	.2	.2	*	*	.0	.0	.0	.0	.0	.0	.0	489	9
12-13	.0	.0	.6	.3	.7	.7	1.2	.6	1.0	.3	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	226	10
>13	.0	.0	.0	.5	.7	.2	.5	.5	.5	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	139	11
INDET	2.7	1.2	1.8	1.9	1.5	1.4	1.2	.4	.6	.2	.1	*	*	*	.0	.0	.0	.0	.0	.0	532	5
TOTAL	183	283	640	647	717	479	472	244	291	75	28	14	8	1	0	0	0	0	0	0	4082	7
PCT	4.5	6.9	15.7	15.9	17.6	11.7	11.6	6.0	7.1	1.8	.7	.3	.2	*	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	1.8	.0	.0	.0	.0	.0	.0	1.8	1.0	1.0	24.3	1.5	4.1	.0	60.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27.6	5.5	1.4	.0	65.5
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	4.7	1.6	86.6
SE	.0	.2	.3	.0	.0	.0	.0	.6	.5	.1	1.3	.0	.9	.2	96.6
S	.1	.2	.4	.0	.0	.0	.0	.6	.7	.1	2.0	.0	1.1	.1	95.4
SW	.0	.2	.6	.0	.0	.0	.0	.8	.8	.8	3.3	.2	1.6	.1	92.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.9	.0	1.7	1.1	92.9
NW	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	.0	8.2	1.5	1.7	.0	86.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.5	.0	.0	.0	.0	1.5	1.5	.0	17.9	.0	.7	.7	77.6
TOT PCT	.2	.2	.3	.0	.0	.0	.0	.7	.6	.1	3.1	.1	1.2	.2	94.0
TOT OBS:	5376														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	.1	.2	.8	.0	.0	.0	.0	1.1	.4	.5	2.6	.1	.5	.2	94.8
06009	.4	.3	.6	.0	.0	.0	.0	1.3	.9	.1	3.8	.1	1.1	.1	92.6
12015	.1	.2	.0	.0	.0	.0	.0	.3	.4	.0	3.6	.2	1.9	.2	93.4
18021	.1	.0	.1	.0	.0	.0	.0	.2	.7	.1	2.5	.1	1.2	.3	94.9
TOT PCT	.2	.2	.3	.0	.0	.0	.0	.7	.6	.1	3.2	.1	1.2	.2	93.9
TOT OBS:	5504														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.4	1.3	.4	.1	.0	.0	2.1	7.6	2.0	2.3	2.1	3.1	2.5	2.3	1.4	1.3		
NE	.2	.6	.0	.0	.0	.0	.9	5.3	.5	1.9	1.4	.8	1.3	.1	.3	.0		
E	.2	.7	.2	.1	.0	.0	1.3	8.5	1.2	1.5	1.7	.8	1.1	.2	1.3	.7		
SE	.6	7.8	17.5	10.1	1.3	*	37.4	17.5	40.5	30.1	38.7	32.9	39.1	29.8	37.6	32.0		
S	2.0	13.3	16.6	5.5	.5	*	38.0	13.9	36.2	40.3	36.9	51.5	36.0	39.4	39.1	49.4		
SW	.9	6.3	2.5	.5	.1	.0	10.3	9.6	10.7	13.2	8.6	5.3	8.4	15.4	12.3	6.8		
W	.5	2.3	.6	.1	.0	.0	3.5	7.9	3.3	4.3	2.6	.4	4.5	4.8	3.5	2.2		
NW	.4	2.2	.6	.1	.0	.0	3.3	7.9	2.3	2.7	3.3	3.4	4.2	5.3	2.6	4.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.2						3.2	.0	3.4	3.8	4.6	2.0	3.1	2.8	2.0	2.9		
TOT OBS	638	2597	2893	1239	141	5	7513		1453	506	1560	200	1672	535	1451	136		
TOT PCT	8.5	34.6	38.5	16.5	1.9	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	09	15	18
N	1.1	.8	.1	*	.0		2.1	7.6	2.1	2.2	2.4	1.4	
NE	.7	.2	*	.0	.0		.9	5.3	.9	1.3	1.0	.2	
E	.7	.4	.1	*	.0		1.3	8.5	1.3	1.6	.9	1.3	
SE	2.9	14.7	15.0	4.5	.2		37.4	17.5	37.8	38.0	36.8	37.1	
S	6.7	18.4	10.4	2.3	.1		38.0	13.9	37.2	38.6	36.8	40.0	
SW	3.9	5.0	1.2	.2	*		10.3	9.6	11.3	8.3	10.1	11.8	
W	1.7	1.6	.2	*	.0		3.5	7.9	3.5	2.4	.6	3.4	
NW	1.6	1.5	.2	*	.0		3.3	7.9	2.4	3.3	4.3	2.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.2						3.2	.0	3.5	4.3	3.0	2.1	
TOT OBS	1690	3201	2055	542	25	7513		13.7	1959	1760	2207	1587	
TOT PCT	22.5	42.6	27.4	7.2	.3	100.0			100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.5	6.0	35.0	38.3	15.3	1.9	.1	13.3	100.0	1959
06004	4.3	4.7	36.1	36.5	16.2	2.0	.1	13.5	100.0	1760
12015	3.0	5.4	32.5	39.7	17.6	1.7	*	13.9	100.0	2207
18021	2.1	4.7	35.1	39.3	16.8	2.0	.1	14.1	100.0	1587
TOT	243	395	2597	2893	1239	141	5	13.7		7513
PCT	3.2	5.3	34.6	38.5	16.5	1.9	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.3	.3	.3	.8		5.7
NE	.2	.1	.1	.2		4.3
E	.4	.1	.4	.4		4.8
SE	15.5	8.2	13.5	7.1		4.0
S	14.2	5.2	10.6	5.7		3.8
SW	2.9	1.3	2.3	1.3		4.1
W	1.2	.7	.6	.7		4.0
NW	.9	.5	.6	1.1		4.8
VAR	.0	.0	.0	.0		4.0
CALM	.9	.2	.6	.5		4.0
TOT OBS	1505	683	1198	732	4118	
TOT PCT	36.5	16.6	29.1	17.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.1	.1	.2	.1	.2	.1	.1	.1	.1	*	.6	
.1	.0	*	*	*	.1	.0	.0	.0	.0	.3	
*	.0	*	.1	.3	.1	*	.0	*	.0	.6	
.1	*	.2	2.6	8.0	5.2	1.6	.3	.3	.1	25.7	
.2	.1	.2	2.5	5.7	3.4	1.1	.5	.2	.3	21.6	
*	*	.1	.4	1.2	.8	.2	.1	*	.1	4.9	
*	.0	.1	.3	.4	.2	.1	.1	*	.1	2.2	
*	.0	.1	.3	.5	.3	.1	*	*	.1	1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.0	.1	.5	.1	*	*	.0	.0	1.3	
.2	.9	.43	.270	.696	.428	.135	.42	.21	.23	24.23	4118
.7	.2	1.0	6.6	16.9	10.4	3.3	1.0	.5	.6	58.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	* OR >10	* OR >5	* OR >2	VSBY (NM) * OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.0	1.1	1.1	1.1	1.1	1.1	1.1
* OR >5000	1.5	1.9	2.0	2.1	2.1	2.1	2.1	2.1
* OR >3500	4.4	5.2	5.3	5.4	5.4	5.4	5.4	5.4
* OR >2000	13.6	15.5	15.7	15.8	15.8	15.8	15.8	15.8
* OR >1000	28.1	32.0	32.5	32.6	32.6	32.6	32.7	32.7
* OR >600	33.2	38.4	39.0	39.1	39.1	39.2	39.2	39.2
* OR >300	33.6	39.2	40.0	40.1	40.1	40.1	40.2	40.2
* OR >150	33.7	39.3	40.2	40.3	40.3	40.3	40.4	40.4
* OR >0	33.7	39.4	40.3	40.5	40.6	40.8	41.0	41.0
TOTAL	1415	1656	1694	1702	1705	1712	1723	1723

TOTAL NUMBER OF OBS: 4199

PCT FREQ NH <5/8: 59.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
20.2	10.6	10.1	9.4	8.2	5.9	8.5	10.8	15.7	.5	4407

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY												
VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2 NO PCP	.2	.1	*	.1	.2	.1	.1	.1	.0	.2	1.1	
TOT %	.2	.1	*	.1	.2	.1	.1	.1	.0	.2	1.1	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1 NO PCP	*	*	.0	*	*	*	*	*	.0	.0	.1	.2
TOT %	*	*	.0	*	*	*	*	*	.0	.0	.1	.2
PCP	*	.0	.0	*	*	.0	.0	*	.0	.0	.1	
1<2 NO PCP	.1	*	.0	.1	.1	.0	.0	*	.0	.1	.4	
TOT %	.1	*	.0	.1	.2	*	.0	*	.0	.1	.5	
PCP	.0	.0	.0	*	*	.0	.0	*	.0	.0	.1	
2<5 NO PCP	.2	*	*	.4	.7	.2	*	.1	.0	.1	1.7	
TOT %	.2	*	*	.4	.7	.2	*	.2	.0	.1	1.8	
PCP	*	.0	.0	.1	.1	*	.0	*	.0	*	.3	
5<10 NO PCP	.5	.2	.3	7.3	8.3	1.6	.5	.5	.0	.4	19.7	
TOT %	.5	.2	.3	7.4	8.5	1.7	.5	.5	.0	.5	20.0	
PCP	.0	.0	.0	.1	.1	*	.0	.0	.0	*	.3	
10+ NO PCP	.8	.3	.8	33.5	28.8	5.7	2.4	2.2	.0	1.6	76.1	
TOT %	.8	.3	.8	33.7	28.8	5.7	2.4	2.2	.0	1.6	76.4	
TOT OBS												5375
TOT PCT	1.8	.7	1.2	41.7	38.4	7.7	3.1	3.0	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	*	*	.1	*	*	.1	.0	.3	.5	
	4-10	.1	.1	*	.1	.2	.1	*	.1	.0	.7		
	11-21	*	.0	.0	.0	*	.0	*	.0	.0	*		
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	*		
	TOT %	.2	.1	.1	.1	.2	.1	*	.1	.0	.3	1.3	
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	.0	*	*	*	*	*	.0	.0	.1		
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.1		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	*	*	.0	*	*	*	*	.0	.0	.1	.2	
1<2	0-3	*	*	.0	*	*	.0	.0	.0	.0	*	.1	
	4-10	.1	*	.0	*	.1	.0	.0	*	.0	.2		
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.1		
	22+	*	.0	.0	*	*	.0	.0	.0	.0	*		
	TOT %	.1	*	.0	.1	.1	*	.0	*	.0	*	.4	
2<5	0-3	*	.0	*	*	.1	.0	.0	*	.0	*	.2	
	4-10	.1	*	*	.1	.3	.1	.0	.1	.0	.8		
	11-21	.1	.0	*	.2	.4	*	*	*	.0	.7		
	22+	*	.0	.0	.1	.1	.0	.0	*	.0	.2		
	TOT %	.2	*	.1	.4	.8	.2	*	.1	.0	*	1.9	
5<10	0-3	.1	*	*	.1	.5	.1	.1	.1	.0	.4	1.6	
	4-10	.3	.2	.2	1.1	2.1	1.1	.3	.2	.0	5.6		
	11-21	.1	*	*	3.2	3.6	.4	*	.1	.0	7.5		
	22+	.0	.0	.1	2.6	1.8	.1	.0	.0	.0	4.6		
	TOT %	.5	.2	.3	7.0	8.1	1.7	.5	.5	.0	.4	19.2	
10+	0-3	.1	.1	.1	.3	1.0	.5	.3	.2	.0	1.7	4.3	
	4-10	.5	.2	.4	6.4	10.4	4.7	1.8	1.6	.0	26.0		
	11-21	.2	.0	.2	16.5	13.4	1.0	.4	.4	.0	32.1		
	22+	.0	.0	*	10.0	4.3	.1	*	*	.0	14.6		
	TOT %	.8	.3	.8	33.2	29.1	6.4	2.6	2.2	.0	1.7	76.9	
TOT OBS													
TOT PCT		1.8	.7	1.2	40.8	38.4	8.4	3.2	3.0	.0	2.6	100.0	6033

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.6	.2	.7	0.0	15.5	9.6	2.5	.9	.5	.6	37.3	62.7	966
06009	1.0	.2	1.6	9.2	20.4	12.2	4.3	1.3	.4	.7	51.3	48.7	1153
12015	.6	.2	.7	5.0	16.4	9.8	3.5	.8	.7	.5	38.1	61.9	1208
18021	.5	.3	.9	5.1	12.8	8.8	2.1	.9	.3	.6	32.4	67.6	981
TOT	29	9	44	274	709	438	137	43	21	26	1730	2578	4308
PCT	.7	.2	1.0	6.4	16.5	10.2	3.2	1.0	.5	.6	40.2	59.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	.2	.3	1.7	19.4	77.1	1492
06009	1.8	.2	.8	2.4	18.1	76.7	1523
12015	.9	.3	.5	2.1	21.3	74.9	1773
18021	1.3	.1	.1	1.9	17.0	79.6	1374
TOT	81	13	27	125	1174	4741	6162
PCT	1.3	.2	.4	2.0	19.1	76.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 ANY 5+	TOTAL OBS
00003	.6	1.7	9.4	29.6	60.9	942
06009	.9	2.8	13.7	39.5	46.8	1129
12015	.6	1.4	8.0	31.8	60.2	1175
18021	.5	1.8	8.4	25.7	65.9	953
TOT	28	82	418	1344	2437	4199
PCT	.7	2.0	10.0	32.0	58.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	*	.0	.0	.0	.0	.0	.0	1	*
70/74	.0	.0	*	.1	.1	.1	*	.0	15	.3
65/69	.0	.0	.1	.3	.8	1.3	.5	.2	144	3.1
60/64	.0	.0	*	1.0	6.6	17.1	17.1	8.5	2166	47.3
55/59	.0	.0	.0	.9	4.6	12.3	18.5	8.3	2044	44.6
50/54	.0	.0	.0	.0	.1	.2	1.0	3.1	198	4.3
45/49	.0	.0	.0	.0	.0	*	*	.2	10	.2
TOTAL	0	1	7	102	552	1415	1704	797	4578	100.0
PCT	.0	*	.2	2.2	12.1	30.9	37.2	17.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	*	*	.0	.0
.0	*	.0	.1	.1	*	.1	*	.0	.0
.0	.1	*	1.5	.7	.4	.2	.3	.0	*
.3	.2	.6	21.9	15.5	4.5	1.9	1.3	.0	1.0
.8	.2	.4	19.4	18.1	3.0	.8	1.0	.0	.9
.3	.1	.1	.7	1.9	.4	.1	.3	.0	.4
*	.0	.0	*	.1	*	.0	.0	.0	*
1.5	.6	1.1	43.7	36.3	8.4	3.1	2.9	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	63	62	59	53	50	44	58.1	1983
06009	67	64	62	59	53	50	46	58.5	1781
12015	77	69	66	61	55	52	49	61.1	2216
18021	73	65	63	59	54	52	49	59.0	1594
TOT	77	67	64	59	54	51	44	59.2	7574

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	9.0	29.2	39.1	21.5	82	1183
06009	.0	2.4	10.7	29.9	36.4	20.6	81	1158
12015	.0	4.5	18.3	36.5	31.8	8.9	77	1251
18021	.0	1.7	9.5	27.1	41.3	20.5	82	1079
TOT	0	117	561	1440	1728	825	80	4671

AUGUST

PERIOD: (PRIMARY) 1926-1975
(OVER-ALL) 1855-1975

TABLE 17

AREA 0017 WALVIS BAY SW
25.45 11.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	% FOG	% FOG
17/19	.0	.0	.0	.0	.0	*	.0	.0	.0	*	2	.0	*
14/16	.0	.0	.0	.0	.0	*	.0	.0	.1	.0	5	.0	.1
11/13	.0	.0	.0	.0	.0	*	.0	*	*	.0	6	*	.1
9/10	.0	.0	.0	.0	*	.2	.1	.1	.0	.0	20	*	.4
7/8	.0	.0	.0	.0	.4	.5	.4	.1	.0	.0	67	.2	1.2
6	.0	.0	.0	*	.3	.3	.2	.1	.0	.0	43	.1	.8
5	.0	.0	*	.1	.6	1.0	.5	*	.0	.0	109	.1	2.1
4	.0	.0	.0	.4	.6	1.5	.4	*	.0	.0	139	.2	2.7
3	.0	.0	*	.5	1.0	2.3	.5	*	.0	.0	215	.1	4.4
2	.0	.0	*	.9	2.3	3.3	.4	.0	.0	.0	336	.2	6.7
1	.0	*	.1	1.1	5.6	5.5	.2	.0	.0	.0	504	.4	12.1
0	.0	*	.2	1.7	9.4	6.5	.1	.0	.0	.0	867	.5	17.4
-1	.0	.0	.2	1.6	13.7	4.4	.1	.0	.0	.0	962	.4	19.6
-2	.0	*	.2	1.0	10.2	1.8	.0	.0	.0	.0	640	.3	12.9
-3	.0	.0	.1	.5	7.2	.8	.0	.0	.0	.0	417	.2	8.4
-4	.0	*	.2	.7	2.8	.3	*	.0	.0	.0	194	.2	3.8
-5	.0	*	*	.6	1.4	.3	.0	.0	.0	.0	116	.1	2.3
-6	.0	.0	.1	.1	.6	*	.0	.0	.0	.0	39	*	.8
-7/-8	.0	.0	.1	.1	.5	*	.0	.0	.0	.0	35	.1	.6
-9/-10	.0	.0	*	.1	.1	*	.0	.0	.0	.0	12	*	.2
-11/-13	.0	.0	.0	*	*	.0	.0	.0	.0	.0	2	.0	*
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
-17/-19	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	5	67	459	2737	1399	139	19	1	1	4832	149	4683
PCT	*	.1	1.4	9.5	56.6	29.0	2.9	.4	.1	*	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
N														
<1	.1	.6	*	.0	.0	.0	.7	.1	.1	.0	.0	.0	.0	.2
1-2	.1	.3	.2	.0	.0	.0	.6	*	.2	.0	.0	.0	.0	.2
3-4	.0	.3	.1	.0	.0	.0	.4	*	*	.0	.0	.0	.0	*
5-6	.0	*	.1	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.2	.4	*	.0	.0	1.9	.2	.3	.0	.0	.0	.0	.5
E														
<1	.1	.1	*	.0	.0	.0	.2	.2	.7	*	.0	.0	.0	1.0
1-2	*	.5	*	.0	.0	.0	.6	.2	3.3	1.9	.0	.0	.0	5.4
3-4	.0	.1	*	.0	.0	.0	.1	*	2.9	6.8	.8	.0	.0	10.5
5-6	.0	.1	.1	*	.0	.0	.2	.0	.5	6.8	2.6	*	.0	10.0
7	.0	.0	.0	*	.0	.0	*	.0	.1	3.3	3.1	.1	.0	6.7
8-9	.0	.0	.0	*	.0	.0	*	.0	*	.9	2.3	.3	*	3.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.4	2.1	.3	.0	2.8
12	.0	.0	.0	*	.0	.0	*	.0	.0	*	.8	.2	.0	1.0
13-16	.0	.0	.0	*	.0	.0	.0	.0	*	*	.6	.4	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	*	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.2	.1	.0	.0	1.2	.4	7.7	20.2	12.8	1.4	*	42.4
SE														
<1	.1	.1	*	.0	.0	.0	.2	.2	.7	*	.0	.0	.0	1.0
1-2	*	.5	*	.0	.0	.0	.6	.2	3.3	1.9	.0	.0	.0	5.4
3-4	.0	.1	*	.0	.0	.0	.1	*	2.9	6.8	.8	.0	.0	10.5
5-6	.0	.1	.1	*	.0	.0	.2	.0	.5	6.8	2.6	*	.0	10.0
7	.0	.0	.0	*	.0	.0	*	.0	.1	3.3	3.1	.1	.0	6.7
8-9	.0	.0	.0	*	.0	.0	*	.0	*	.9	2.3	.3	*	3.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.4	2.1	.3	.0	2.8
12	.0	.0	.0	*	.0	.0	*	.0	.0	*	.8	.2	.0	1.0
13-16	.0	.0	.0	*	.0	.0	.0	.0	*	*	.6	.4	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	*	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.7	.2	.1	.0	.0	1.2	.4	7.7	20.2	12.8	1.4	*	42.4

PERIOD: (OVER-ALL) 1963-1975

AUGUST

AREA 0017 WALVIS BAY SW
29.45 11.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.9	1.4	*	.0	.0	.0	2.3	.4	.8	.0	.0	.0	.0	.0	1.2
1-2	.3	7.1	2.4	.0	.0	.0	9.0	.2	3.0	.2	.0	.0	.0	.0	3.3
3-4	*	3.9	6.4	.3	.0	.0	10.6	.0	1.4	.5	.0	.0	.0	.0	1.9
5-6	.0	.5	5.9	1.0	.0	.0	7.4	.0	.1	.4	*	.0	.0	.0	.5
7	.0	.2	2.7	1.1	.0	.0	4.1	.0	.1	.1	*	.0	.0	.0	.2
8-9	.0	.1	.6	1.1	*	*	1.9	.0	*	*	*	.0	.0	.0	.1
10-11	.0	.0	.2	1.1	.1	.0	1.5	.0	.0	*	*	.0	.0	.0	.1
12	.0	.0	.1	.4	*	.0	.5	.0	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.1	.3	.4	.0	.8	.0	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	*	*	*	.1	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	13.2	18.5	5.4	.6	.1	30.0	.6	5.4	1.2	.1	*	.0	.0	7.2

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	.3	*	.0	.0	.0	.5	.2	.4	*	.0	.0	.0	.0	.6	
1-2	.1	1.0	.1	.0	.0	.0	1.2	.1	.9	.1	.0	.0	.0	.0	1.1	
3-4	.0	.6	.2	.0	.0	.0	.8	.1	.3	.3	.0	.0	.0	.0	.6	
5-6	.0	*	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	
7	.0	*	*	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	*	*	.0	.0	.1	.0	.0	*	*	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.0	.5	*	.0	.0	2.8	.4	1.6	.5	*	.0	.0	.0	2.5	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.6	4.4	.2	.0	.0	.0	10.1	
1-2	1.3	16.3	4.9	.0	.0	.0	22.5	
3-4	.2	9.3	14.1	1.1	.0	.0	24.6	
5-6	.0	1.2	13.2	3.7	*	.0	18.1	
7	*	.4	6.1	4.2	.1	.0	10.9	
8-9	.0	.2	1.6	3.4	.3	*	5.5	
10-11	.0	.1	.6	3.2	.3	.0	4.2	
12	.0	.0	.1	1.3	.2	.0	1.6	
13-16	.0	*	.1	.9	.8	.0	1.9	
17-19	.0	.0	*	.3	*	*	.4	
20-22	.0	.0	.0	.1	*	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	*	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.1	31.9	40.9	18.1	1.9	.1	100.0	3207

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	3.5	5.9	3.8	2.7	1.1	.9	.4	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	795	4
6-7	.1	.5	3.9	5.6	5.1	3.7	3.5	1.3	1.6	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	988	7
8-9	*	.5	1.1	4.2	4.2	4.0	3.3	1.6	2.8	1.0	.4	.1	*	.1	.0	.0	.0	.0	.0	898	9
10-11	.0	.4	.6	1.4	2.5	2.1	1.9	1.2	1.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	473	9
12-13	.0	.0	.9	.3	.9	.8	1.6	.6	1.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	255	9
>13	.0	.0	.0	.3	.2	.7	.3	.4	.7	.2	.1	.0	*	*	.0	.0	.0	.0	.0	117	11
INDET	1.2	.6	1.4	1.2	1.0	1.3	.8	.2	.5	.3	*	.0	*	.0	.0	.0	.0	.0	.0	325	6
TOTAL	126	215	530	645	641	527	479	219	324	94	36	8	4	3	0	0	0	0	0	3851	7
PCT	3.3	5.6	13.8	16.7	16.6	13.7	12.4	5.7	8.4	2.4	.9	.2	.1	.1	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975AREA 0017 WALVIS BAY SW
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG MU PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	20.7	.0	2.6	.0	74.4	
NE	.0	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	18.6	.0	.0	.0	80.0	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	.0	6.5	*	88.4	
SE	.2	.2	.3	.0	.0	.0	.1	.7	.2	.7	1.3	*	2.2	*	94.9	
S	.1	.3	.5	.0	.0	.0	.0	.9	.4	.5	3.7	.1	2.0	.1	92.3	
SW	.0	1.2	.5	.0	.0	.0	.0	1.7	.4	1.1	3.4	.0	2.5	.0	90.9	
W	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	6.4	.0	3.3	.0	89.7	
NW	1.1	.6	2.3	.0	.0	.0	.0	4.0	1.1	.0	8.2	1.1	1.1	.0	84.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	1.0	1.0	.0	.0	.0	.0	2.0	.0	.0	38.0	.0	3.0	.0	57.0	
TOT PCT	.1	.3	.5	.0	.0	.0	*	1.0	.3	.0	3.8	.1	2.2	.1	92.1	
TOT OBS:	5354															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.1	.2	.8	.0	.0	.0	.1	1.2	.3	2.2	3.8	.2	1.8	.0	.0	90.7
06009	.1	.4	.0	.0	.0	.0	.0	1.2	.6	.1	6.1	.1	1.7	.0	.0	90.3
12015	.2	.5	.3	.0	.0	.0	.1	1.0	.1	.0	3.5	.0	3.4	.2	.1	91.8
18021	.1	.2	.2	.0	.0	.0	.0	.5	.3	.4	2.5	.1	2.2	.0	.0	94.1
TOT PCT	.1	.3	.5	.0	.0	.0	*	1.0	.3	.0	4.0	.1	2.3	.1	.0	91.7
TOT OBS:	5495															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	1.2	.4	*	.0	.0		1.9	7.7		1.9	2.0	2.6	5.6	1.4	2.6	1.2	.0
NE	.1	.3	.1	.0	.0	.0		.4	6.6		.4	.6	.9	.8	.3	.4	.2	.0
E	.2	.4	.2	*	.0	.0		.8	8.4		1.1	.7	1.0	2.6	.8	.3	.4	1.7
SE	.6	7.0	19.0	9.6	1.2	*		37.5	17.5		35.9	33.6	40.0	38.9	41.7	29.0	36.2	33.3
S	1.9	14.1	20.9	6.4	.6	*		43.9	14.1		45.0	44.0	42.8	47.7	41.1	44.8	45.2	56.6
SW	.9	4.6	2.9	.3	.1	*		8.9	10.1		9.1	10.3	6.3	2.4	7.6	14.9	10.8	6.2
W	.4	1.6	.4	*	.0	.0		2.5	7.4		2.2	2.0	2.6	.6	2.4	3.6	2.8	.6
NW	.2	1.2	.4	*	.0	.0		1.9	8.2		1.7	1.9	1.4	.0	2.8	2.6	1.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		2.7	4.9	2.6	1.3	1.9	1.9	1.4	1.7
TOT OBS	521	2270	3314	1232	139	5	7481		14.2		1441	493	1547	155	1652	537	1535	121
TOT PCT	7.0	30.3	44.3	16.5	1.9	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.9	1.0	.1	*	.0		1.9	7.7	1.9	2.8	1.7	1.1	
NE	.3	.1	*	.0	.0		.4	6.6	.4	.9	.3	.2	
E	.4	.4	.1	.0	.0		.8	8.4	1.0	1.1	.6	.5	
SE	2.6	14.7	15.8	4.3	.1		37.5	17.5	35.3	39.9	38.6	36.0	
S	7.0	21.2	13.3	2.3	.1		43.9	14.1	44.7	43.2	42.0	46.0	
SW	3.2	4.3	1.1	.2	.1		8.9	10.1	9.4	5.9	9.4	10.4	
W	1.3	1.1	.1	*	.0		2.5	7.4	2.2	2.4	2.7	2.6	
NW	.8	1.1	*	*	.0		1.9	8.2	1.8	1.3	2.8	1.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.3						2.3	.0	3.3	2.5	1.9	1.4	
TOT OBS	1396	3278	2282	507	18	7481		14.2	1934	1702	2189	1656	
TOT PCT	18.7	43.8	30.5	6.8	.2		100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975

AREA 0017 WALVIS BAY SW
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	3.3	5.6	31.6	42.5	14.8	1.9	.0	13.6	100.0	1934
06609	2.5	4.5	32.3	42.4	16.9	1.5	.1	14.1	100.0	1702
12615	1.9	4.9	27.2	46.2	17.2	2.4	.2	14.7	100.0	2189
18621	1.4	3.5	31.0	45.5	17.0	1.5	.0	14.4	100.0	1656
TOT	170	351	2270	3314	1232	139	5	14.2		7481
PCT	2.3	5.7	30.3	44.3	16.5	1.9	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.1	.2	.4	4.7	
NE	*	*	*	.1	6.0	
E	.2	.1	.1	.3	5.4	
SE	14.7	6.8	14.0	9.3	4.3	
S	16.7	5.8	9.5	10.4	4.0	
SW	2.3	.9	1.3	1.1	3.9	
W	.8	.2	.6	.3	4.1	
NW	.6	.2	.5	.7	4.9	
VAR	.0	.0	.0	.0	.0	
CALM	.5	.0	.2	.7	4.9	
TOT OBS	1520	593	1110	981	4204	4.2
TOT PCT	36.2	14.1	26.4	23.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	*	.0	.1	.1	*	*	.0	.1	.0	.5	
NE	*	*	.0	.1	.1	.0	.0	.0	.0	.0	.1	
E	.0	.0	.0	.1	.2	.1	*	.0	.0	.0	.2	
SE	.1	.1	.2	3.3	9.6	5.1	1.7	.6	.1	.2	23.8	
S	.4	.1	.7	3.1	6.8	4.1	1.4	.8	.2	.3	24.5	
SW	.1	*	*	.2	1.0	.3	.2	.1	*	.0	3.6	
W	*	*	.1	.1	.4	.1	.1	.1	.0	.0	1.1	
NW	.1	.0	.1	.1	.4	.1	*	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.1	.1	.2	*	*	.0	*	.0	.6	
TOT OBS	55	8	53	302	789	420	142	67	20	21	2327	4204
TOT PCT	1.3	.2	1.3	7.2	18.8	10.0	3.4	1.6	.5	.5	55.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	# OR >10	# OR >5	# OR >2	# OR >1	# OR >1/2	# OR >1/4	# OR >50YD	# OR >0	
# OR >6500	.7	.9	1.0	1.0	1.0	1.0	1.0	1.0	
# OR >5000	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
# OR >3500	5.0	5.8	5.9	5.9	5.9	5.9	5.9	5.9	
# OR >2000	13.2	15.5	15.8	15.8	15.8	15.8	15.8	15.8	
# OR >1000	29.5	34.0	34.4	34.4	34.4	34.4	34.4	34.4	
# OR >600	35.0	41.0	41.6	41.7	41.7	41.7	41.7	41.7	
# OR >300	35.5	42.0	42.8	42.9	42.9	42.9	42.9	42.9	
# OR >150	35.6	42.1	43.0	43.1	43.1	43.1	43.1	43.1	
# OR >0	35.7	42.3	43.3	43.5	43.6	44.0	44.5	44.5	
TOTAL	1528	1811	1854	1862	1866	1883	1905	1905	

TOTAL NUMBER OF OBS: 4280

PCT FREQ NH <5/8: 55.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.4	10.1	9.6	7.4	6.3	5.5	7.9	10.1	20.6	1.1	4453

SEPTEMBER

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975AREA 0017 MALVIS BAY SW
25.45 12.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.1	*	.0	.1	.4	*	*	.1	.0	.4	1.1	
	TOT %	.1	*	.0	.1	.4	*	*	.1	.0	.4	1.1	
1/2<1	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.1	*	.0	*	.3	.1	*	*	.0	.1	.6	
	TOT %	.1	*	.0	*	.3	.1	*	*	.0	.1	.6	
1<2	PCP	*	*	.0	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	*	.3	.2	.1	*	.0	.0	*	.7	
	TOT %	*	*	*	.4	.2	.1	*	.0	.0	*	.7	
2<5	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	*	*	.4	1.3	.2	*	.1	.0	.1	2.2	
	TOT %	.2	*	*	.4	1.3	.2	*	.1	.0	.1	2.3	
5<10	PCP	*	.0	.0	.1	.2	.1	*	*	.0	*	.5	
	NO PCP	.5	.1	.2	7.5	11.2	1.4	.3	.3	.0	.5	21.9	
	TOT %	.5	.1	.2	7.7	11.4	1.5	.3	.3	.0	.5	22.4	
10+	PCP	.0	.0	.0	.1	.2	*	.0	*	.0	.0	.3	
	NO PCP	.6	.2	.5	33.2	30.5	4.4	1.5	1.1	.0	.7	72.6	
	TOT %	.6	.2	.5	33.3	30.7	4.4	1.5	1.1	.0	.7	72.9	
TOT Obs													5349
TOT PCT													
		1.4	.3	.7	41.8	44.1	6.3	1.8	1.6	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
0-3	*	*	*	*	*	*	*	.0	*	.0	.4	.7	
<1/2	4-10	.1	*	.0	*	.2	.1	*	*	.0		.4	
	11-21	*	*	.0	*	.0	.0	*	*	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	.1	.4	.1	*	.1	.0	.4	1.2	
1/2<1	0-3	.0	*	*	.0	*	.0	*	.0	.0	.2	.2	
	4-10	*	*	.0	*	.1	*	.0	*	.0		.3	
	11-21	.0	.0	*	*	.1	*	.0	.0	.0		.1	
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*	
	TOT %	*	*	*	*	.3	*	*	*	.0	.2	.7	
1<2	0-3	*	*	*	*	*	*	.0	.0	.0	*	.1	
	4-10	*	.0	*	*	.1	.1	*	*	.0		.3	
	11-21	.0	.0	.0	.2	*	*	.0	.0	.0		.2	
	22+	.0	.0	.0	.1	.1	*	.0	.0	.0		.2	
	TOT %	*	*	*	.3	.2	.1	*	*	.0	*	.8	
2<5	0-3	.1	.0	.0	*	.1	*	.0	.0	.0	.1	.3	
	4-10	.1	*	*	.2	.6	.1	*	.1	.0		1.1	
	11-21	*	*	.0	.1	.5	.1	*	.0	.0		.8	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0		.3	
	TOT %	.2	*	*	.5	1.4	.3	.1	.1	.0	.1	2.6	
5<10	0-3	.1	*	.1	.2	.6	.2	*	.1	.0	.5	1.9	
	4-10	.3	.1	.1	1.3	2.9	.8	.3	.2	.0		6.0	
	11-21	.1	*	*	3.5	5.3	.3	*	*	.0		9.4	
	22+	.0	.0	.0	2.1	2.1	.1	.0	.0	.0		4.3	
	TOT %	.5	.1	.3	7.2	11.0	1.5	.3	.3	.0	.5	21.6	
10+	0-3	.1	*	.1	.4	1.0	.5	.3	.1	.0	.8	3.1	
	4-10	.4	.1	.3	5.8	10.0	3.0	1.1	.7	.0		21.3	
	11-21	.1	*	.2	17.2	19.7	1.4	.3	.4	.0		35.4	
	22+	.0	.0	.0	9.0	4.3	*	.0	*	.0		13.4	
	TOT %	.6	.2	.5	32.4	31.0	4.9	1.7	1.1	.0	.8	73.1	
TOT Obs													6066
TOT PCT													
		1.4	.3	.8	40.5	44.2	7.0	2.1	1.6	.0	1.9	100.0	

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PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975

AREA 0017 WALVIS BAY SW
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH <5/8 OBS	TOTAL OBS
00603	1.7	.2	.8	5.9	19.2	9.9	3.0	1.3	.5	.6	43.1	56.9	990
06609	1.7	.5	1.7	9.3	22.7	10.8	3.7	1.9	.5	.7	53.4	46.6	1108
12615	1.0	.1	1.2	5.9	15.3	9.1	2.9	1.8	.7	.4	38.3	61.7	1192
18621	1.0	.0	1.3	7.4	16.6	9.3	3.7	1.3	.2	.2	41.1	58.9	1062
TOT	59	8	55	310	799	426	144	70	20	21	1912	2440	4352
PCT	1.4	.2	1.3	7.1	18.4	9.8	3.3	1.6	.5	.5	43.9	56.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	1.7	.6	.6	1.7	22.6	72.8	1517
06609	1.8	1.3	.8	3.7	21.1	71.3	1496
12615	.9	.5	1.1	3.0	23.4	71.1	1760
18621	.7	.4	.9	1.9	20.1	75.9	1436
TOT	78	43	54	162	1360	4512	6209
PCT	1.3	.7	.9	2.6	21.9	72.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	1.7	3.2	10.1	34.7	55.2	974
06609	1.7	4.3	15.4	39.9	44.7	1092
12615	1.0	2.5	9.8	30.1	60.1	1173
18621	1.1	2.5	11.1	31.5	57.3	1041
TOT	59	133	497	1455	2328	4280
PCT	1.4	3.1	11.6	34.0	54.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	*	.0	.0	.0	.0	.0	1	*
70/74	.0	.0	*	*	*	.2	.0	.0	13	.3
65/69	.0	.0	*	.3	.9	1.7	.7	.1	168	3.6
60/64	.0	.0	.1	.8	5.0	14.6	18.6	6.4	2117	45.5
55/59	.0	.0	*	.4	3.8	11.0	18.7	11.7	2123	45.0
50/54	.0	.0	.0	.0	.0	.1	1.1	3.7	224	4.8
45/49	.0	.0	.0	.0	.0	.0	*	.2	8	.2
TOTAL	0	0	7	71	450	1282	1821	1023	4654	100.0
PCT	.0	.0	.2	1.5	9.7	27.5	39.1	22.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	*	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.1	.1	*	*	*	.0	*
65/69	.0	.0	*	2.0	1.3	.2	*	.1	.0	.0
60/64	.1	.1	.4	23.7	16.6	2.7	.9	.8	.0	.3
55/59	.8	*	.2	16.7	22.7	3.1	.7	.6	.0	.7
50/54	.2	.1	*	.5	2.4	.3	.2	.2	.0	.8
45/49	.0	.0	.0	*	*	*	.0	.0	.0	.1
TOTAL	1.1	.2	.7	43.1	43.1	6.3	1.8	1.6	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	76	64	62	58	53	50	45	58.0	1958
06609	68	64	62	59	53	50	47	58.4	1735
12615	79	70	67	61	55	53	48	61.1	2213
18621	77	65	63	59	54	52	49	59.0	1682
TOT	79	68	64	59	54	51	45	59.2	7588

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.5	6.7	22.8	41.5	28.6	84	1201		
06609	.0	1.0	8.4	26.2	39.9	24.4	83	1167		
12615	.0	3.9	15.2	35.1	33.4	12.3	78	1267		
18621	.0	.9	7.8	24.0	42.3	25.0	83	1122		
TOT	0	78	458	1294	1862	1065	82	4757		

SEPTEMBER

PERIOD: (PRIMARY) 1925-1975
(OVER-ALL) 1855-1975AREA 0017 WALVIS BAY SW
25.45 12.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	*	.0	*	*	2	.0	*
14/16	.0	.0	.0	.0	.0	.2	*	*	.0	11	.0	.2
11/13	.0	.0	.0	.0	*	.1	.1	.0	.0	10	.0	.2
9/10	.0	.0	.0	*	.1	.1	.1	*	.0	18	*	.3
7/8	.0	.0	.0	.5	.3	.3	.2	.0	.0	63	.1	1.2
6	.0	.0	*	.2	.2	.4	.1	.0	.0	52	*	1.0
5	.0	.0	.3	.4	.8	.7	*	.0	.0	109	.2	2.1
4	.0	.0	.6	.8	1.3	.6	.0	.0	.0	163	.2	3.1
3	.0	*	.7	1.2	2.5	.6	.0	.0	.0	250	.3	4.8
2	.0	.2	.7	1.2	3.9	.2	.0	.0	.0	394	.3	7.8
1	.0	.1	1.3	6.3	6.4	.2	.0	.0	.0	698	.5	13.9
0	.0	.2	1.9	11.2	6.6	.1	.0	.0	.0	972	.5	19.5
-1	.0	.2	1.6	14.0	3.8	.0	.0	.0	.0	951	.4	19.1
-2	.1	.2	1.3	8.9	1.5	.0	.0	.0	.0	585	.3	11.7
-3	.0	.2	1.0	4.4	.6	.0	.0	.0	.0	303	.4	5.8
-4	*	.1	1.0	1.6	.4	*	.0	.0	.0	154	.2	3.0
-5	.0	.1	.3	1.0	.2	*	.0	.0	.0	78	.2	1.4
-6	*	*	*	.2	*	.0	.0	.0	.0	19	.1	.3
-7/-8	.0	*	*	.4	.1	.0	.0	.0	.0	28	.0	.6
-9/-10	.0	.0	*	*	*	.0	.0	.0	.0	3	.0	.1
TOTAL	6		534		1404		25		1	4863	184	4679
PCT	.1	1.5	11.0	54.3	28.9	3.7	.5	*	*	100.0	3.8	96.2

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.4	.0	*	.0	.0	.0	.0	*
1-2	.1	.4	.2	.0	.0	.0	.7	*	.0	.0	.0	.0	.0	*
3-4	.0	*	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
5-6	*	.0	*	.0	.0	.0	*	*	.0	*	.0	.0	.0	*
7	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.3	.0	.0	.0	1.2	*	*	*	.0	.0	.0	.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2	.5	.4	*	.0	.0	.0	.9
1-2	*	.1	.0	.0	.0	.0	.2	.1	3.1	1.9	.0	.0	.0	5.1
3-4	*	*	.1	.0	.0	.0	.1	.1	2.8	7.1	.5	.0	.0	10.6
5-6	.0	.1	.1	.0	.0	.0	.2	*	.7	7.8	2.3	*	.0	10.8
7	.0	.0	*	.0	.0	.0	*	.0	.2	3.7	3.0	.2	.0	7.1
8-9	.0	.0	*	.0	.0	.0	*	.0	*	1.5	2.2	.1	.0	3.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	2.0	.2	.0	2.6
12	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.4	.2	*	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.4	.0	1.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	*	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.3	.2	.0	.0	.0	.7	.7	7.3	22.6	11.7	1.3	.1	43.7

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0017 WALVIS BAY SW
25.45 12.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.0	1.4	*	.0	.0	.0		2.4	.2	.3	*	.0	.0	.0		.4
1-2	.6	7.0	3.1	.0	.0	.0		10.7	.2	1.8	.4	.0	.0	.0		2.4
3-4	.1	4.2	8.4	.7	.0	.0		13.4	.0	.5	.7	*	.0	.0		1.3
5-6	*	.7	7.2	1.1	.0	.0		9.1	.0	*	.3	*	.0	.0		.3
7	.0	.1	2.9	1.5	.0	.0		4.5	.0	*	*	*	.0	.0		.1
8-9	.0	.1	1.1	.6	.1	.0		1.9	.0	*	*	*	.0	.0		.1
10-11	.0	.1	.4	.9	.1	.0		1.4	.0	.0	*	.0	.0	.0		*
12	.0	.0	.0	.4	.1	.0		.5	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.1	.3	.2	.0		.6	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	*	*	.0		.1	.0	.0	*	.0	.0	.0		*
20-22	.0	.0	.0	*	*	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	*	.0		*	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.7	13.6	23.2	5.6	.5	.0		44.6	.4	2.7	1.5	.1	.0	.0		4.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.2	*	.0	.0	.0		.3	*	.1	.0	.0	.0	.0		.1	
1-2	.2	.7	.1	.0	.0	.0		.9	.1	.6	.1	.0	.0	.0		.8	
3-4	.0	.1	.2	.0	.0	.0		.3	.0	.2	.3	.0	.0	.0		.5	
5-6	.0	.0	.1	.0	.0	.0		.1	.0	*	.1	.0	.0	.0		.1	
7	.0	.0	*	.0	.0	.0		*	.0	*	*	.0	.0	.0		*	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	*	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	1.0	.4	.0	.0	.0		1.7	.1	1.0	.5	.0	.0	.0		1.6	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	2.7	.1	.0	.0	.0	7.7	
1-2	1.3	13.7	5.7	.0	.0	.0	20.7	
3-4	.2	7.8	16.6	1.2	.0	.0	25.8	
5-6	.1	1.5	15.4	3.4	*	.0	20.4	
7	.0	.4	6.6	4.5	.1	.0	11.7	
8-9	.0	.1	2.6	2.9	.2	.0	5.8	
10-11	.0	.2	.7	2.9	.2	.0	4.0	
12	.0	*	*	.7	.3	*	1.1	
13-16	.0	.0	.3	1.3	.6	.0	2.1	
17-19	.0	.0	*	.2	.1	*	.4	
20-22	.0	.0	*	.0	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	*	*	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	26.5	48.1	17.0	1.8	.1	100.0	3359

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD [SEC]	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.0	3.1	5.4	5.1	3.3	1.7	1.2	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	843	5
6-7	.1	.6	3.7	5.9	5.7	3.8	3.3	1.4	1.5	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	1042	7
8-9	*	*	1.8	3.8	5.3	3.9	3.4	1.7	1.8	.7	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	912	8
10-11	.0	1.4	1.2	.9	2.2	1.9	2.0	1.2	1.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	495	8
12-13	.0	.0	1.1	.4	.6	.6	1.0	.5	.7	.2	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	204	9
>13	.0	.0	.0	.2	.3	.2	.3	.2	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	68	12
INDET	1.5	1.0	1.1	1.7	1.2	1.1	.7	.4	.3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	357	5
TOTAL	99	251	564	710	730	514	466	228	232	74	36	11	6	0	0	0	0	0	0	0	3921	7
PCT	2.5	6.4	14.4	18.1	18.6	13.1	11.9	5.8	5.9	1.9	.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1928-1975
(OVER-ALL) 1856-1975

TABLE 1

AREA 0017 WALVIS BAY SW
29.45 12.0E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	2.1	.0	.0	.0	.0	.0	2.1	.0	.0	17.3	2.1	3.7	.0	74.9
NE	.0	.0	12.1	.0	.0	.0	.0	12.1	.0	.0	12.1	.0	.0	.0	75.8
E	4.8	.0	9.6	.0	.0	.0	.0	14.5	3.6	.0	.0	.0	3.6	.0	78.3
SE	.2	.1	.5	.0	.0	.0	.0	.8	.3	.1	.8	.2	1.6	.2	90.3
S	.4	.7	.0	.0	.0	.0	.0	1.1	.7	.3	1.8	.2	2.3	.1	93.5
SW	.0	.0	1.2	.0	.0	.0	.0	1.2	.7	.1	3.7	.0	2.6	.0	91.8
W	.0	.9	1.0	.0	.0	.0	.0	2.5	.7	1.8	.9	.0	1.8	.0	92.3
NW	1.3	.0	.0	.0	.0	.0	.0	1.3	2.6	.0	6.3	.0	3.0	.0	86.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	11.9	.0	5.0	.0	82.2
TOT PCT	.1	.3	.7	.0	.0	.0	.0	1.1	.5	.2	2.0	.1	2.1	.1	93.8
TOT OBS:	5159														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	.2	.1	1.0	.0	.0	.0	.0	1.3	.6	.8	1.8	.0	1.5	.2	93.9
06609	.2	.5	.8	.0	.0	.0	.0	1.6	.8	.1	3.5	.2	1.5	.2	92.3
12615	.1	.5	.3	.0	.0	.0	.0	.9	.5	.0	2.1	.1	3.4	.1	92.8
18621	.1	.1	.6	.0	.0	.0	.0	.8	.5	.1	1.3	.2	2.5	.3	94.4
TOT PCT	.2	.3	.7	.0	.0	.0	.0	1.1	.6	.2	2.2	.1	2.2	.2	93.3
TOT OBS:	5271														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.6	.2	.0	.0	.0		1.2	7.7	.7	1.3	1.8	1.3	1.3	1.6	.7	.6	
NE	.4	.2	.0	.0	.0	.0		.3	7.4	.1	.8	.4	.2	.2	.4	.2	.9	
E	.1	.2	.1	.0	.0	.0		.4	9.7	.5	.3	1.1	.0	.1	.0	.2	.0	
SE	.4	6.4	17.9	8.9	.9	.0		34.4	17.5	34.5	30.0	37.1	31.9	37.3	26.1	33.1	29.7	
S	1.3	15.0	25.0	7.3	.7	.0		49.3	14.7	47.5	52.1	47.3	59.2	47.7	51.7	51.7	57.7	
SW	.8	4.8	2.3	.3	.1	.0		8.4	9.7	9.0	9.8	6.4	5.3	7.1	14.0	9.3	4.9	
W	.4	1.6	.4	.0	.0	.0		2.5	7.6	3.0	3.2	1.8	1.3	2.8	3.0	1.9	4.1	
NW	.2	.9	.3	.0	.0	.0		1.5	8.4	1.5	1.2	1.4	.8	1.4	2.3	1.4	2.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1							2.1	.0	3.2	1.2	2.8	.0	2.1	.8	1.6	.0	
TOT OBS	397	2141	3316	1192	117	4	7167		14.5	1478	423	1511	131	1538	486	1483	117	
TOT PCT	5.5	29.9	46.3	16.6	1.6	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.7	.4	.1	.0	.0		1.2	7.7	.9	1.8	1.4	.7	
NE	.1	.2	.0	.0	.0		.3	7.4	.3	.4	.3	.2	
E	.2	.1	.0	.0	.0		.4	9.7	.4	1.0	.1	.2	
SE	1.7	13.9	15.2	3.5	.1		34.4	17.5	33.5	36.7	34.6	32.8	
S	5.8	24.7	16.0	2.6	.2		49.3	14.7	48.5	48.2	48.6	52.1	
SW	2.7	4.7	.7	.1	.0		8.4	9.7	9.2	6.3	8.8	9.0	
W	1.3	1.0	.2	.0	.0		2.5	7.6	3.0	1.7	2.8	2.1	
NW	.6	.8	.0	.0	.0		1.5	8.4	1.4	1.4	1.6	1.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.1						2.1	.0	2.8	2.6	1.8	1.4	
TOT OBS	1097	3277	2315	452	26	7167		14.5	1901	1642	2024	1600	
TOT PCT	15.3	45.7	32.3	6.3	.4		100.0		100.0	100.0	100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1928-1975
(OVER-ALL) 1856-1975

TABLE 4

AREA 0017 WALVIS BAY SW
29.45 12.0E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.8	3.1	30.7	46.0	16.0	1.5	.0	14.2	100.0	1901
06009	2.6	3.4	30.0	45.4	16.8	1.8	.1	14.6	100.0	1642
12015	1.8	4.2	29.4	46.0	16.7	1.9	*	14.5	100.0	2024
18021	1.4	2.8	29.4	47.9	17.2	1.3	.1	14.8	100.0	1600
TOT	154	243	2141	3316	1192	117	4	14.5		7167
PCT	2.1	3.4	29.9	46.3	16.6	1.6	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 8 OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	.1	.5		5.5
NE	*	*	.1	*		5.0
E	.1	*	.1	.2		6.0
SE	9.6	6.3	13.4	10.6		4.9
S	15.8	6.2	11.3	13.1		4.4
SW	2.3	1.0	1.7	1.7		4.4
W	1.0	.3	.6	.3		3.7
NW	.5	.3	.4	.4		4.4
VAR	.0	.0	.0	.0		.0
CALM	.9	.1	.2	.7		3.8
TOT OBS	1262	594	1157	1145	4158	4.6
TOT PCT	30.4	14.3	27.8	27.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH < 5/8 ANY HGT	TOTAL OBS
N	.1	.0	*	*	.1	.1	.0	.1	*	.0	.3	
NE	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
E	.0	.0	*	*	.1	.1	*	.0	.0	.0	.1	
SE	.3	3.2	8.8	6.0	1.7	.6	.2	.3	18.7			
S	.2	.1	1.2	3.9	8.6	4.9	1.4	.7	.3	.3	25.0	
SW	*	.1	.5	.9	.7	.2	.2	.1	.1	.1	3.9	
W	*	.0	.1	.1	.3	.2	.1	*	*	*	1.5	
NW	*	.0	*	.2	.3	.2	*	*	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.2	.2	*	*	*	.0	.0	1.1	
TOT OBS	21	5	81	334	792	512	144	71	24	31	2143	4158
TOT PCT	.5	.1	1.9	8.0	19.0	12.3	3.5	1.7	.6	.7	51.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	1.2	1.3	1.3	1.3	1.3	1.3	1.3
* OR >5000	2.1	2.9	3.0	3.1	3.1	3.1	3.1	3.1
* OR >3500	5.0	6.3	6.5	6.5	6.5	6.5	6.5	6.5
* OR >2000	15.4	18.3	18.8	18.9	18.9	18.9	18.9	18.9
* OR >1000	31.6	37.0	37.7	37.8	37.8	37.8	37.9	37.9
* OR >600	37.2	44.6	45.5	45.6	45.6	45.7	45.7	45.7
* OR >300	37.9	46.2	47.4	47.5	47.5	47.6	47.6	47.6
* OR >150	38.0	46.3	47.5	47.7	47.7	47.7	47.8	47.8
* OR > 0	38.0	46.4	47.6	47.8	47.9	48.3	48.4	48.4
TOTAL	1612	1965	2019	2026	2028	2046	2053	2053

TOTAL NUMBER OF OBS: 4238

PCT FREQ NH < 5/8: 51.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
	17.8	9.5	8.9	7.5	7.3	5.1	7.6	11.2	24.6	.5	4436

OCTOBER

PERIOD: (PRIMARY) 1928-1975
(OVER-ALL) 1856-1975

TABLE 8

AREA 0017 WALVIS BAY SW
25.45 12.0EPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.0	.0	*	.2	*	*	*	*	.1	.4	
	TOT %	.1	.0	.0	*	.2	*	*	*	.0	.1	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	* .0	.0	.0	*	.1	.1	.0	*	.0	.0	.2	
	TOT %	* .0	.0	.0	*	.1	.1	.0	*	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	* .0	.0	.0	*	.1	*	.0	.0	.0	*	.3	
	TOT %	* .0	.0	.0	*	.1	*	.0	.0	.0	*	.3	
2<5	PCP	.0	*	.1	*	.1	.1	.0	*	.0	*	.3	
	NO PCP	.1	*	* .5	1.1	.1	*	.1	.0	.2	2.2		
	TOT %	.1	*	.1	.6	1.2	.2	*	.1	.0	.2	2.4	
5<10	PCP	.0	.0	.0	.1	.3	*	*	.0	.0	.0	.5	
	NO PCP	.3	.1	.1	6.5	12.4	1.3	.2	.2	.0	.7	22.0	
	TOT %	.3	.1	.1	6.7	12.8	1.4	.3	.2	.0	.7	22.5	
10+	PCP	*	.0	.0	.1	.1	*	*	.0	.0	.0	.3	
	NO PCP	.4	.1	.3	29.6	34.2	5.5	1.8	1.1	.0	.9	73.8	
	TOT %	.4	.1	.3	29.8	34.4	5.5	1.8	1.1	.0	.9	74.1	
TOT OBS													5156
TOT PCT													
		.9	.2	.4	37.1	48.7	7.2	2.1	1.5	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	*	*	.0	*	*	.0	.1	.2	
	4-10	*	.0	.0	*	.1	*	.0	.0	.0	.0	.2	
	11-21	*	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.1	.0	.0	*	.2	*	*	*	.0	.1	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	*	.0	.0	.0	*	.1	.0	*	.0	.0	.1	
	11-21	*	.0	.0	*	*	.0	.0	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	*	.1	.1	.0	*	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	*	*	.0	.0	.0	*	.1	
	4-10	*	.0	.0	*	*	*	.0	*	.0	.0	.1	
	11-21	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	.0	.1	.2	*	.0	*	.0	*	.3	
2<5	0-3	*	*	.0	*	.1	*	.0	.0	.0	.2	.4	
	4-10	*	*	*	.1	.5	.1	*	.1	.0	.0	.9	
	11-21	.0	.0	*	.3	.5	*	*	*	.0	.0	.9	
	22+	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
	TOT %	.1	*	.1	.5	1.3	.2	.1	.1	.0	.2	2.5	
5<10	0-3	.1	*	.0	.1	.3	.2	*	.1	.0	.7	1.5	
	4-10	.2	*	.0	1.3	3.4	.7	.2	.1	.0	.0	5.9	
	11-21	*	*	*	3.0	6.6	.4	.1	*	.0	.0	10.1	
	22+	*	.0	*	2.3	2.3	*	.0	*	.0	.0	4.7	
	TOT %	.3	*	.1	6.7	12.5	1.3	.3	.3	.0	.7	22.2	
10+	0-3	*	*	*	.2	.7	.4	.2	.1	.0	.9	2.6	
	4-10	.2	*	.2	5.2	10.4	3.6	1.3	.7	.0	.0	21.6	
	11-21	.1	*	*	16.0	18.3	1.3	.2	.3	.0	.0	36.2	
	22+	*	.0	*	8.3	5.4	.1	*	*	.0	.0	13.8	
	TOT %	.3	.1	.2	29.8	34.9	5.4	1.8	1.0	.0	.9	74.3	
TOT OBS													5857
TOT PCT													
		.8	.1	.4	37.0	49.1	7.0	2.1	1.4	.0	2.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1928-1975
(OVER-ALL) 1856-1975AREA 0017 WALVIS BAY SW
25.45 12.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/6 BY HOUR

HOOR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	.0	1.9	8.3	19.7	10.4	2.8	2.3	.5	.8	47.5	52.5	1000
06009	1.0	.1	2.4	9.0	22.4	15.8	4.2	2.0	.6	.6	58.2	41.8	1111
12015	.7	.3	1.7	6.0	15.7	10.5	3.3	1.3	.6	.4	40.5	59.5	1149
18021	.2	.1	1.6	7.8	16.9	11.8	3.1	1.4	.5	1.0	44.5	55.5	1055
TOT	29	5	82	394	804	526	146	75	24	31	2056	2259	4315
PCT	.7	.1	1.9	7.7	18.6	12.2	3.4	1.7	.6	.7	47.6	52.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOOR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.1	.4	1.9	22.0	74.8	1488
06009	1.2	.2	.4	4.0	27.9	71.4	1456
12015	.6	.3	.4	2.1	22.8	73.7	1634
18021	.2	.2	.1	2.5	21.1	75.8	1392
TOT	41	13	21	156	1328	4411	5970
PCT	.7	.2	.4	2.6	22.2	73.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOOR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.8	2.8	12.3	36.5	51.1	988
06009	1.0	3.9	15.1	44.9	40.0	1096
12015	.7	2.8	10.4	32.0	57.7	1120
18021	.2	1.9	11.6	34.4	54.0	1034
TOT	29	122	524	1567	2147	4238
PCT	.7	2.9	12.4	37.0	50.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	.0	.0	.0	.0	.0	.0	.0	1	*
70/74	.0	.0	.1	.1	.2	.2	.1	.0	30	.7
65/69	.0	.0	.1	.3	1.6	2.8	1.8	.4	314	7.0
60/64	.0	.0	.0	.5	6.4	21.9	26.7	8.3	2871	63.9
55/59	.0	.0	.0	.1	.7	4.3	11.6	9.5	1178	26.2
50/54	.0	.0	.0	.0	.0	.0	.8	1.4	98	2.2
45/49	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	1	0	6	47	403	1313	1840	883	4493	100.0
PCT	*	.0	.1	1.0	9.0	29.2	41.0	19.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	*	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.2	.3	.1	*	*	.0	*
65/69	*	*	.1	3.0	2.7	.5	.3	.2	.0	.1
60/64	.3	.1	.2	28.4	26.7	5.1	1.5	.9	.0	1.7
55/59	.3	*	.2	7.1	15.1	1.7	.5	.3	.0	1.0
50/54	.1	*	.0	.1	1.5	*	*	.1	.0	.2
45/49	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
TOTAL	.8	.1	.5	38.9	46.4	7.4	2.3	1.5	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR

HOOR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	71	64	63	60	54	57	48	59.1	1922
06009	77	66	64	60	54	57	49	59.9	1666
12015	80	72	68	63	56	54	50	60.6	2012
18021	82	66	64	61	55	54	51	60.3	1611
TOT	82	69	66	61	55	53	48	60.5	7211

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOOR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	5.8	24.1	45.9	23.8	84	1178
06009	.0	.9	8.4	28.3	41.6	20.8	82	1115
12015	.0	2.7	15.6	37.0	32.7	11.9	78	1191
18021	.1	.8	5.2	26.4	43.9	23.6	83	1095
TOT	1	56	405	1329	1876	912	82	4579

PERIOD: (PRIMARY) 1928-1975
(OVER-ALL) 1856-1975

OCTOBER

AREA 0017 HALVIS BAY SW
25.45 12.06

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	% FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
14/16	.0	.0	.0	.0	*	.0	.0	*	.0	2	.0	*
11/13	.0	.0	.0	*	.1	.1	.1	.0	.0	16	.0	.3
9/10	.0	.0	.1	.3	.2	.1	.1	.0	.0	43	*	.9
7/8	.0	*	.3	.6	.6	.4	*	.0	.0	91	.1	1.9
6	.0	.1	.6	.6	.5	.1	*	.0	.0	88	.1	1.8
5	.0	.4	.5	1.1	1.2	*	.0	.0	.0	152	.2	3.1
4	.0	.5	.6	1.4	.9	*	.0	.0	.0	169	.1	3.5
3	*	.9	1.2	2.9	1.3	*	.0	.0	.0	300	.2	6.2
2	.1	1.0	2.2	6.2	.9	.0	.0	.0	.0	489	.3	10.1
1	.2	.9	4.7	9.3	.6	*	.0	.0	.0	738	.3	15.5
0	.1	.7	7.6	11.3	.2	.0	.0	.0	.0	933	.4	19.6
-1	*	.4	8.3	7.7	.1	.0	.0	.0	.0	774	.2	16.3
-2	.1	.4	6.8	2.8	*	.0	.0	.0	.0	474	.2	9.9
-3	*	.3	3.6	1.2	*	.0	.0	.0	.0	236	.1	4.9
-4	*	.2	1.1	.5	.0	.0	.0	.0	.0	88	.1	1.8
-5	.0	.1	.7	.3	*	*	.0	.0	.0	54	.0	1.2
-6	.0	*	.2	.1	.0	.0	.0	.0	.0	16	.0	.3
-7/-8	.0	.1	.2	.0	.0	.0	.0	.0	.0	13	.0	.3
-9/-10	.0	.0	*	*	.0	.0	.0	.0	.0	3	*	*
-11/-13	.0	.0	.0	*	.0	.0	.0	.0	.0	2	.0	*
TOTAL	28	1817	2175	318	42	9	2	1	4683	109	4574	
PCT	.6	6.2	38.8	46.4	6.8	.9	.2	*	*	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	*	.1	.0	.0	.0	.0	.1
1-2	.1	.2	.1	.0	.0	.0	.3	.0	.1	*	.0	.0	.0	.1
3-4	*	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	*	.1	.1	.0	.0	.2	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	.1	.1	.0	.0	1.0	*	.2	*	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	*	.0	.0	.0	.0	.1	.2	.5	*	.0	.0	.0	.7
1-2	*	.1	.1	.0	.0	.0	.2	.2	3.9	1.2	.0	.0	.0	5.3
3-4	.0	.1	.0	.0	.0	.0	.1	.0	2.2	5.8	.7	.0	.0	8.7
5-6	.0	.0	*	.0	.0	.0	.1	.0	.4	6.5	2.3	.3	.0	9.5
7	.0	*	.1	.0	.0	.0	*	.0	.1	3.4	2.2	.3	.0	6.0
8-9	.0	.0	.0	*	.0	.0	*	.0	.1	.9	1.8	*	.0	2.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.6	.2	.0	2.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.6	.2	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	*	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.1	*	.0	.0	.4	.4	7.2	18.3	9.7	1.1	.0	36.7

PERIOD: (OVER-ALL) 1963-1975

OCTOBER
TABLE 18 (CONT)AREA 0017 WALVIS BAY SW
25.45 12.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.6	1.9	*	.0	.0	.0	2.6		.4	.3	.0	.0	.0	.0	.6	
1-2	.5	7.9	2.4	.0	.0	.0	10.8		.3	2.7	.3	.0	.0	.0	3.2	
3-4	.1	4.5	9.6	.6	.0	.0	14.8		*	.9	.6	*	.0	.0	1.5	
5-6	.1	.8	8.1	1.0	.1	.0	10.1		.0	.2	.4	*	.0	.0	.6	
7	.0	.2	3.5	1.7	.2	*	5.6		.0	*	.2	*	.0	.0	.2	
8-9	.0	.1	1.5	1.0	.1	.0	2.7		.0	*	.1	.0	.0	.0	.1	
10-11	.0	.0	.4	1.3	*	.0	1.8		.0	.0	*	*	.0	.0	*	
12	.0	.0	*	.3	.0	.0	.4		.0	.0	.0	*	.0	.0	*	
13-16	.0	.0	.1	.2	.0	.0	.3		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	*	.0	.0	*		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	*	.0	*		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	*	.0	*		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	19.4	29.7	6.2	.4	*	49.1		.6	4.0	1.5	.1	.0	.0	6.3	

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.2	.2	.0	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.3		
1-2	.1	.8	.0	.0	.0	.0	.9	*	.6	.1	.0	.0	.0	.8		
3-4	.0	.4	.1	.0	.0	.0	.6	.0	.2	.2	.0	.0	.0	.4		
5-6	*	*	.0	.0	.0	.0	.1	.0	.0	.1	*	.0	.0	.1		
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.3	1.5	.2	.0	.0	.0	2.0	.1	1.0	.4	*	.0	.0	1.6 97.4		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	3.4	.1	.0	.0	.0	8.5	
1-2	1.5	16.1	4.0	.0	.0	.0	21.7	
3-4	.2	8.3	16.2	1.3	.0	.0	25.9	
5-6	.2	1.4	15.0	3.4	.4	.0	20.4	
7	.0	.3	7.1	3.9	.4	*	11.8	
8-9	.0	.2	2.4	2.8	.2	.0	5.6	
10-11	.0	.0	.7	2.9	.2	.0	3.8	
12	.0	.0	.1	.6	.0	.0	.7	
13-16	.0	.0	.1	.8	.2	.0	1.1	
17-19	.0	*	.1	.2	*	.0	.4	
20-22	.0	.0	.0	.1	*	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.9	29.8	45.8	15.9	1.5	*	100.0	3296

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	4.4	7.2	5.3	3.0	1.5	1.3	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	945
6-7	.0	.7	4.5	6.7	6.3	4.3	2.9	1.1	1.0	.3	.2	*	*	.0	.0	.0	.0	.0	.0	.0	1121
8-9	.0	.1	1.6	4.4	4.2	3.8	3.1	1.2	1.3	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	820
10-11	.0	.0	1.8	.5	1.0	2.1	1.7	1.3	1.1	.6	.3	.3	*	*	.0	.0	.0	.0	.0	.0	425
12-13	.0	.0	.0	1.1	.7	.9	.7	1.1	.5	.5	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	229
>13	.0	.0	.0	.0	.4	.5	.4	.2	.2	.4	.1	.3	*	.1	.0	.0	.0	.0	.0	.0	95
INDET	1.1	.5	1.3	1.6	2.1	1.0	.7	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	363
TOTAL	64	304	640	796	760	528	425	183	170	58	47	13	10	0	0	0	0	0	0	0	3998
PCT	1.6	7.6	16.0	19.9	19.0	13.2	10.6	4.6	4.3	1.5	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1855-1975

NOVEMBER

AREA 0017 WALVIS BAY SW
25.5S 11.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WJ PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	.0	.0	2.3	.0	.0	.0	.0	2.3	4.0	.7	21.0	1.3	6.0	.0	64.7	
NE	.0	.0	8.3	.0	.0	.0	.0	8.3	8.3	.0	16.7	.0	4.2	.0	62.5	
E	2.6	.0	.0	.0	.0	.0	.0	2.6	2.6	2.6	11.2	.0	.0	.0	80.9	
SE	.1	.2	.3	.0	.0	.0	.0	.6	.5	.1	.9	.0	1.8	.2	95.9	
S	.1	.4	.3	.0	.0	.0	.0	.9	.4	.4	2.4	.1	2.8	.3	92.7	
SW	.0	.6	.5	.0	.0	.0	.0	1.1	.8	.4	.9	.5	2.1	.0	94.3	
W	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	.7	5.7	1.4	2.5	.0	88.2	
NW	.0	.0	.2	.0	.0	.0	.0	.2	.0	1.8	3.9	.0	7.5	.0	84.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	1.5	1.5	.0	.0	.0	.0	3.0	1.5	4.5	11.9	.0	9.0	.0	70.1	
TOT PCT	.2	.3	.5	.0	.0	.0	.0	.9	.5	.4	2.3	.1	2.6	.2	92.9	
TOT OBS:	5248															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WJ PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG
00003	.2	.3	1.0	.0	.0	.0	.0	1.5	.6	1.5	1.5	.2	1.8	.2	92.8
06009	.1	.3	.7	.0	.0	.0	.0	1.2	.9	.1	4.2	.2	1.7	.1	91.5
12015	.2	.5	.1	.0	.0	.0	.0	.7	.5	.0	3.0	.1	4.7	.3	90.7
18021	.1	.2	.2	.0	.0	.0	.0	.5	.2	.2	1.8	.1	2.9	.2	94.3
TOT PCT	.2	.3	.5	.0	.0	.0	.0	1.0	.6	.4	2.7	.1	2.8	.2	92.3
TOT OBS:	5374														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.4	.9	.3	.0	.0	.0		1.6	6.3	1.0	1.3	2.2	5.1	1.9	1.5	.8	.9
NE	.1	.3	.1	.0	.0	.0		.5	6.2	.4	.5	.9	.9	.4	.3	.2	.0
E	.1	.4	.2	*	.0	.0		.7	8.7	.7	.8	1.1	1.9	.5	.7	.4	.0
SE	.5	5.7	19.6	9.2	.8	*		35.8	17.6	37.1	33.3	41.1	28.9	37.8	24.9	32.0	31.8
S	1.6	13.9	24.2	8.8	.7	*		49.2	15.0	49.4	50.8	44.8	57.3	47.3	52.8	52.2	61.3
SW	.7	3.9	2.0	.3	*	.0		7.0	9.7	7.0	8.0	4.7	2.4	6.0	13.8	8.6	3.6
W	.4	1.1	.1	*	.0	.0		1.6	6.2	1.1	1.9	1.4	.0	1.7	1.9	2.1	.7
NW	.4	1.3	.3	.0	.0	.0		2.1	6.7	1.6	1.6	2.0	2.2	2.7	2.2	2.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.7	1.9	1.7	1.4	1.6	2.0	1.4	1.8
TOT OBS	417	1960	3325	1305	107	3	7117		14.8	1434	430	1503	147	1560	434	1478	111
TOT PCT	5.9	27.5	46.7	18.3	1.5	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.0	.5	*	.0	.0		1.6	6.3	1.1	2.5	1.8	.8
NE	.3	.2	*	.0	.0		.5	6.2	.4	.9	.4	.2
E	.3	.3	.1	.0	.0		.7	8.7	.8	1.2	.5	.4
SE	1.7	13.7	17.2	3.1	.2	35.8	17.6	36.2	40.0	34.9	32.0	
S	6.1	23.3	16.6	3.2	.1	49.2	15.0	49.7	45.9	48.6	52.8	
SW	2.5	3.5	.8	.1	*	7.0	9.7	7.3	4.5	7.8	8.3	
W	1.0	.6	*	.0	.0	1.6	6.2	1.3	1.3	1.8	2.0	
NW	1.1	.9	*	.0	.0	2.1	6.7	1.6	2.0	2.6	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6					1.6	.0	1.7	1.7	1.7	1.4	
TOT OBS	1109	3063	2472	454	19	7117		14.8	1864	1650	2014	1589
TOT PCT	15.6	43.0	34.7	6.4	.3	100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.7	3.7	27.5	48.3	17.5	1.2	.1	14.8	100.0	1864
06009	1.7	4.0	27.5	45.0	18.7	1.6	.1	14.8	100.0	1650
12015	1.7	4.3	28.6	45.1	18.6	1.7	*	14.8	100.0	2014
18021	1.4	4.0	26.4	48.1	18.6	1.4	.0	15.0	100.0	1589
TOT	117	300	1960	3325	1305	107	3	14.8		7117
PCT	1.6	4.2	27.5	46.7	18.3	1.5	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.2	*	.2	.7		6.1
NE	.1	*	.1	.3		6.0
E	.2	*	.2	.2		5.3
SE	11.1	6.8	13.8	9.9		4.7
S	19.0	6.5	11.5	9.1		3.8
SW	1.7	.8	1.1	1.5		4.5
W	.5	.1	.4	.3		4.4
NW	.9	.4	.7	.5		4.3
VAR	.0	.0	.0	.0		.0
CALM	.5	.1	.2	.3		3.8
TOT OBS	1436	620	1187	954	4197	
TOT PCT	34.2	14.8	28.3	22.7	100.0	4.3

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY Hgt	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.1	.0	.2	.1	.2	.1	.0	*	.0	.1	.3	
*	*	*	.1	.1	*	.0	.0	.0	*	.1	
*	.0	.0	.1	.2	*	*	.0	.0	.0	.3	
*	.1	.6	2.9	9.3	5.7	1.9	.6	.2	.1	20.3	
.3	.1	.8	2.5	7.6	4.1	1.7	.3	.2	.2	28.2	
*	*	.1	.3	.9	.5	.2	.1	*	*	2.9	
*	.0	*	.1	.2	.1	*	*	*	*	.7	
*	.0	.1	.2	.3	.2	*	*	*	*	1.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.1	*	*	*	.0	.0	.0	.7	
.31	.11	.77	2.70	7.95	4.55	1.68	.43	.22	.19	2306	4197
.7	.3	1.8	6.4	18.9	10.8	4.0	1.0	.5	.5	54.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0
* OR >3500	5.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0
* OR >2000	14.2	16.5	16.8	16.8	16.8	16.8	16.8	16.8
* OR >1000	29.7	34.9	35.5	35.5	35.5	35.5	35.5	35.5
* OR >600	34.3	41.0	41.8	41.8	41.8	41.8	41.8	41.9
* OR >300	35.0	42.5	43.6	43.6	43.6	43.7	43.7	43.7
* OR >150	35.1	42.7	43.8	43.8	43.9	43.9	43.9	43.9
* OR >0	35.2	42.9	44.0	44.1	44.1	44.5	44.7	44.8
TOTAL	1502	1832	1879	1884	1884	1901	1906	1910

TOTAL NUMBER OF OBS: 4268

PCT FREQ NH <5/8: 55.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
19.0	11.5	9.6	7.7	6.4	5.4	9.3	10.8	19.5	.7	4545

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	.0	.0	*	.0	.0	.1	
	NO PCP	.2	*	*	.1	.2	*	*	*	.0	.1	.6	
	TOT %	.2	*	.1	.1	.2	*	*	*	.0	.1	.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	*	*	.2	*	.0	.0	.0	*	.3	
	TOT %	*	*	*	*	.2	*	.0	.0	.0	*	.3	
1<2	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	*	.0	*	.1	.1	.0	*	*	.0	.0	.2	
	TOT %	*	*	*	.1	.1	.0	*	*	.0	*	.2	
2<5	PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.2	*	*	.4	1.5	.1	*	.2	.0	.1	2.6	
	TOT %	.2	*	*	.4	1.6	.1	*	.2	.0	.1	2.7	
5<10	PCP	*	.0	.0	.1	.3	*	.0	.0	.0	*	.5	
	NO PCP	.6	.1	.1	6.7	11.6	1.0	.3	.3	.0	.4	21.3	
	TOT %	.6	.1	.1	6.9	11.8	1.1	.3	.3	.0	.5	21.7	
10+	PCP	.0	.0	.0	.1	.1	.0	*	.0	.0	.0	.2	
	NO PCP	.4	.2	.5	31.9	34.2	3.8	.9	1.6	.0	.6	74.1	
	TOT %	.4	.2	.5	32.0	34.4	3.8	.9	1.6	.0	.6	74.3	
TOT OBS													5244
TOT PCT													
1.4 .5 .7 39.4 48.3 4.9 1.3 2.2 .0 1.3 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	.0	.0	*	*	.0	.2	.2	
	4-10	.1	.0	*	.1	.1	*	*	*	.0	.0	.2	
	11-21	*	*	.0	*	.1	*	*	.0	.0	.0	*	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.2	*	*	.1	.2	*	.1	*	.0	.2	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	*	.0	.1	.0	.0	.0	.0	.1	.1	
	11-21	*	*	*	*	.1	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	.2	*	.0	.0	.0	*	.3	
1<2	0-3	*	.0	*	.0	*	*	*	*	.0	*	.1	
	4-10	.0	*	*	*	.1	.0	*	.0	.0	.1	.1	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	.1	
	TOT %	*	*	*	*	.2	*	*	*	.0	*	.3	
2<5	0-3	*	*	*	*	.1	*	*	.1	.0	.1	.5	
	4-10	.1	*	*	.1	.4	.1	*	.1	.0	.8	.8	
	11-21	.1	*	.0	.3	.8	*	.0	*	.0	1.1	1.1	
	22+	.0	.0	.0	.1	.2	*	.0	.0	.0	.3	.3	
	TOT %	.2	*	*	.5	1.5	.1	*	.2	.0	.1	2.7	
5<10	0-3	.1	.1	*	*	.5	.2	.1	.1	.0	.4	1.6	
	4-10	.3	.1	.1	.8	2.9	.6	.3	.3	.0	5.4	5.4	
	11-21	.1	.0	*	3.3	5.6	.3	.1	.0	.0	9.4	9.4	
	22+	.0	.0	*	2.5	2.7	*	*	.0	.0	5.3	5.3	
	TOT %	.6	.1	.2	6.7	11.7	1.1	.4	.4	.0	.4	21.6	
10+	0-3	.1	*	*	.5	.9	.3	.2	.3	.0	.6	2.9	
	4-10	.2	.1	.3	5.1	10.2	2.6	.7	1.0	.0	20.2	20.2	
	11-21	*	*	.1	17.5	18.2	1.0	.1	.3	.0	37.3	37.3	
	22+	.0	.0	*	7.9	5.9	*	.0	.0	.0	13.9	13.9	
	TOT %	.4	.2	.5	31.0	35.2	4.0	1.0	1.5	.0	.6	74.3	
TOT OBS													5989
TOT PCT													
1.3 .4 .8 38.3 48.9 5.3 1.5 2.2 .0 1.4 100.0													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 478) AND
OCCURRENCE OF NH < 578 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 578 ANY HGT	TOTAL OBS
00603	1.2	.3	1.8	6.0	18.8	10.3	4.3	.8	.2	.3	43.9	56.1	1021
06609	1.1	.3	2.3	9.3	23.6	13.9	4.8	1.2	.5	.4	57.2	42.8	1129
12615	.7	.2	1.9	4.2	16.1	9.2	3.2	1.2	.4	.7	37.9	62.1	1141
18621	.3	.3	1.1	5.4	14.9	8.7	3.4	.7	.9	.4	36.0	64.0	1095
TOT	35	11	78	273	805	462	172	43	23	19	1921	2465	4386
PCT	.8	.3	1.8	6.2	18.4	10.5	3.9	1.0	.5	.4	43.8	56.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.8	.3	.2	1.8	22.1	74.8	1526
06609	1.8	.3	.3	3.5	21.6	72.5	1498
12615	.7	.5	.5	2.9	23.9	71.5	1676
18621	.4	.1	.4	3.0	19.3	76.8	1418
TOT	56	18	21	171	1336	4516	6118
PCT	.9	.3	.3	2.8	21.8	73.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 478) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH < 578 AND 5+	TOTAL OBS
00603	1.2	3.3	10.8	35.4	53.9	986
06609	1.1	3.8	14.6	44.6	40.8	1109
12615	.8	3.2	9.5	30.6	59.8	1103
18621	.3	1.7	8.9	28.9	62.2	1070
TOT	36	128	468	1491	2309	4268
PCT	.8	3.0	11.0	34.9	54.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.0	.0	5	.1
70/74	.0	.0	.0	.2	.8	.8	.2	.0	87	2.0
65/69	.0	.0	.0	.3	3.6	9.1	9.3	2.7	1118	25.1
60/64	.0	.0	.1	2.5	17.3	26.5	14.2	27.01	60.6	6.0
55/59	.0	.0	.0	.1	.9	4.4	4.7	45.2	10.1	1.0
50/54	.0	.0	.0	.0	.0	.9	1.1	89	2.0	.2
45/49	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
TOTAL	0	0	2	33	316	1252	1839	1012	4454	100.0
PCT	.0	.0	.0	.7	7.1	28.1	41.3	22.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
.0	.0	.0	1.0	.8	.1	.0	.1	.0	.0
.2	.1	.2	12.2	9.4	1.4	.6	.8	.0	.1
.6	.2	.4	27.2	27.3	3.1	.7	.8	.0	.5
.3	.1	.0	1.3	7.2	.6	.0	.3	.0	.3
.2	.0	.0	.1	1.3	.0	.0	.2	.0	.2
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.2	.4	.6	41.9	46.0	5.1	1.4	2.2	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	71	67	65	62	55	52	50	61.1	1893
06609	75	70	67	63	56	53	48	62.2	1693
12615	80	75	71	65	58	54	52	64.8	2020
18621	75	69	66	63	57	54	49	62.6	1597
TOT	80	72	68	63	56	53	48	62.7	7203

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.2	3.1	24.5	42.3	29.9	84	1182		
06609	.0	.8	7.0	28.5	41.6	22.0	83	1136		
12615	.0	1.8	15.0	33.8	35.6	13.8	79	1136		
18621	.0	.3	3.6	24.8	45.3	26.1	84	1097		
TOT	0	35	326	1270	1874	1046	82	4551		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	W0 FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	9	.0	.2
11/13	.0	.0	.0	.0	.1	.1	.1	.3	.0	27	.0	.5
9/10	.0	.0	.0	.0	.2	.2	.1	.2	.0	34	.0	.7
7/8	.0	.0	.0	.0	.6	.3	.5	.1	.0	99	.0	2.0
6	.0	.0	.1	.5	.5	.6	.5	.0	.0	106	.1	2.1
5	.0	.0	.7	.4	1.0	1.2	.6	.0	.0	194	.3	3.8
4	.0	.0	.7	.3	1.1	1.9	.6	.0	.0	220	.2	4.4
3	.0	.0	.3	.8	1.6	3.7	.4	.0	.0	323	.1	6.6
2	.0	.2	.3	1.0	3.6	3.6	.1	.0	.0	418	.3	8.4
1	.0	.1	.3	1.5	9.4	5.0	.1	.0	.0	784	.4	16.0
0	.0	.1	.1	2.0	14.7	3.6	.0	.0	.0	981	.2	20.3
-1	.0	.0	.1	1.8	12.6	1.9	.1	.0	.0	794	.4	16.2
-2	.0	.1	.1	1.9	5.8	.6	.0	.0	.0	411	.1	8.4
-3	.0	.0	.1	1.1	2.5	.3	.0	.0	.0	193	.1	3.9
-4	.0	.0	.2	.7	1.1	.1	.0	.0	.0	97	.0	2.0
-5	.0	.0	.1	.5	.5	.0	.0	.0	.0	55	.1	1.1
-6	.0	.0	.1	.1	.2	.0	.0	.0	.0	18	.0	.3
-7/-8	.0	.1	.0	.1	.1	.0	.0	.0	.0	16	.0	.3
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
TOTAL	1	35	160	637	1106	148	37	3	4787	124	4663	
PCT	.7	3.3	17.3	55.6	23.1	3.1	.8	.1	100.0	2.6	97.4	

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.1	.1	.0	.0	.0	.0	.2
1-2	.2	.3	.1	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.7	.2	.0	.0	.0	1.2	.1	.2	.1	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1	.3	.3	.0	.0	.0	.0	.6
1-2	.0	.3	.0	.0	.0	.0	.3	.2	2.9	2.0	.0	.0	.0	5.1
3-4	.0	.1	.1	.0	.0	.0	.2	.0	1.8	5.8	1.1	.0	.0	8.8
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.5	7.4	2.4	.1	.0	10.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.6	2.2	.1	.0	6.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	2.0	.1	.0	3.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.8	.4	.0	2.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.1	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.2	.0	.0	.0	.7	.6	5.6	21.8	10.7	1.0	.0	39.7

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER
TABLE 18 (CONT)AREA 0017 WALVIS BAY SW
25.95 11.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.7	1.1	.0	.0	.0	3.1	.2	.5	.0	.0	.0	.0	.6
1-2	.4	6.2	2.7	.0	.0	.0	9.3	.1	1.7	.2	.0	.0	.0	2.0
3-4	.1	3.5	8.4	.0	.0	.0	12.6	*	.6	.5	.0	.0	.0	1.1
5-6	.0	.8	7.9	2.2	.1	.0	11.0	.0	*	.2	.0	.0	.0	.3
7	.0	.1	3.3	2.5	.2	.0	6.1	.0	.1	.1	*	.0	.0	.2
8-9	.0	.2	1.2	1.7	.0	.0	3.0	.0	*	.1	*	.0	.0	.1
10-11	.0	.1	.2	1.2	.2	.0	1.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	.5	*	.0	.8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.6	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	12.6	24.1	9.4	.6	.0	48.5	.3	2.8	1.2	*	.0	.0	4.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.3	.0	.0	.0	.0	.4	.5	.3	.0	.0	.0	.0	.8	
1-2	.1	.6	.0	.0	.0	.0	.7	.1	.9	.1	.0	.0	.0	1.1	
3-4	.0	.2	.1	.0	.0	.0	.2	.0	.2	.3	.0	.0	.0	.5	
5-6	.0	*	.0	.0	.0	.0	*	*	.0	*	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.1	.1	.0	.0	.0	1.3	.6	1.5	.4	.0	.0	.0	2.4	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	3.6	.1	.0	.0	.0	8.5	
1-2	1.1	12.9	5.0	.0	.0	.0	19.0	
3-4	.1	6.4	15.0	1.8	.0	.0	23.3	
5-6	*	1.5	15.6	4.6	.2	.0	21.9	
7	.0	.2	8.0	4.7	.3	.0	13.2	
8-9	.0	.2	2.6	3.6	.1	.0	6.5	
10-11	.0	.1	.6	3.0	.6	.0	4.3	
12	.0	.0	.2	1.0	.1	.0	1.4	
13-16	.0	.0	.3	1.0	.2	*	1.5	
17-19	.0	.0	.1	.2	.1	.0	.4	
20-22	.0	.0	*	*	.1	.0	.1	
23-25	.0	.0	.0	*	.0	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	24.9	47.5	19.9	1.6	*	100.0	3416

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	3.8	5.7	6.0	4.0	1.8	1.2	.4	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	949	5
6-7	.0	.9	3.5	5.6	6.0	4.1	3.4	1.7	1.7	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	1108	7
8-9	.0	.3	1.3	3.4	4.7	3.8	3.3	2.0	2.4	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	877	9
10-11	.0	.8	.5	1.0	2.4	1.8	1.4	.8	.9	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	406	9
12-13	.0	.0	1.0	.5	.8	.3	.6	.5	.5	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	183	9
>13	.0	.0	.0	.7	.7	.2	.3	.3	.1	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	96	8
INDET	1.0	.9	1.5	1.9	1.0	1.1	1.1	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	357	5
TOTAL	68	264	538	763	779	522	447	227	243	68	31	21	5	0	0	0	0	0	0	3976	7
PCT	1.7	6.6	13.5	19.2	19.6	13.1	11.2	5.7	6.1	1.7	.8	.5	.1	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1855-1975AREA 0017 WALVIS BAY SW
25.5S 11.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WJ PCPN	FOG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	5.0	.0	.0	.0	.0	5.6	11.1	.0	11.1	.0	.0	.0	72.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	.0	.0	.0	84.6
E	.0	.0	3.8	.0	.0	.0	.0	3.8	.0	.0	2.9	.0	.0	.0	93.3
SE	.0	.1	.7	.0	.0	.0	.0	.8	.3	.3	.5	.0	.6	.2	97.1
S	.3	.1	.8	.0	.0	.0	.0	1.1	.3	.4	2.1	.0	2.2	.1	93.8
SW	.1	.4	.4	.0	.0	.0	.0	1.0	.5	.0	2.0	.4	3.2	.0	92.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	3.7	.0	93.1
NW	.0	.0	6.2	.0	.0	.0	.0	6.2	.0	.0	13.8	.0	.0	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71.7
CALM	.0	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	26.4	.0	.0	.0	94.6
TOT PCT	.2	.1	.8	.0	.0	.0	.0	1.0	.4	.3	1.9	*	1.7	.1	94.6
TOT OBS:	4448														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WJ PCPN	FOG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.2	.1	1.1	.0	.0	.0	.0	1.3	.5	.7	2.0	.0	1.3	.1	94.1
06009	.1	.2	1.1	.0	.0	.0	.0	1.3	.4	.2	3.2	.0	1.5	.3	93.2
12015	.1	.0	.3	.0	.0	.0	.0	.4	.2	.0	2.3	.2	2.4	.2	94.4
18021	.5	.2	.7	.0	.0	.0	.0	1.3	.3	.4	1.7	.0	1.9	.1	94.5
TOT PCT	.2	.1	.8	.0	.0	.0	.0	1.1	.4	.3	2.3	*	1.8	.2	94.0
TOT OBS:	4558														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.8	.1	.0	.0	.0		1.0	6.1	.7	1.8	1.2	.7	1.2	1.4	.4	1.8	
NE	.1	.1	.1	.0	.0	.0		.2	8.3	.2	.1	.5	.0	.1	.3	.1	.0	
E	.1	.3	.2	.0	.0	.0		.5	9.8	.2	.4	.9	1.9	.9	.2	.1	.0	
SE	.4	7.0	21.1	6.7	.4	*		35.6	16.3	35.9	33.4	40.9	34.4	37.2	26.3	32.2	34.8	
S	1.7	15.6	26.2	7.2	.6	*		51.2	14.4	52.5	48.3	46.7	51.7	49.4	52.3	56.5	56.3	
SW	.6	4.5	2.0	.4	*	.0		7.4	9.8	6.2	10.3	5.8	8.4	6.7	13.8	7.8	3.6	
W	.4	1.1	.2	.0	.0	.0		1.7	6.0	1.7	1.7	1.4	.7	1.9	2.4	1.5	3.6	
NW	.2	.4	*	.0	.0	.0		.6	5.4	.6	1.0	.6	.2	.8	1.1	.3	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8							1.8	.0	2.0	3.1	2.0	1.9	1.8	2.0	1.0	.0	
TOT DBS	337	1918	3229	929	66	2	6481		14.2		1322	421	1372	104	1390	451	1365	56
TOT PCT	5.2	29.6	49.8	14.3	1.0	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.7	.2	*	.0	.0			1.0	6.1	1.0	1.2	1.2	.5
NE	.1	.1	*	.0	.0			.2	8.3	.2	.5	.1	.1
E	.2	.3	.1	.0	.0			.5	9.8	.3	1.0	.7	.1
SE	2.0	16.3	15.1	2.1	.1			35.6	16.3	35.3	40.4	34.6	32.3
S	6.7	25.2	14.9	2.4	.1			51.2	14.4	51.5	47.0	50.1	56.5
SW	2.5	3.8	1.0	.1	.0			7.4	9.8	7.2	6.0	8.5	7.7
W	1.0	.6	*	.0	.0			1.7	6.0	1.7	1.4	2.1	1.5
NW	.4	.2	.0	.0	.0			.6	5.4	.7	.6	.8	.3
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.2	2.0	1.8	1.0
TOT DBS	1003	3022	2145	299	12	6481			14.2				
TOT PCT	15.5	46.6	33.1	4.6	.2			100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1955-1975

AREA 0017 WALVIS BAY SW
25.95 11.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.2	3.2	28.6	50.5	14.3	1.0	.1	14.2	100.0	1743
0600	2.0	3.7	31.5	46.5	15.0	1.2	.1	14.1	100.0	1476
1200	1.8	4.1	29.4	50.5	13.1	1.1	.0	14.0	100.0	1841
1800	1.0	2.5	29.1	51.5	15.2	.8	.0	14.2	100.0	1421
TOT	116	221	1918	3279	929	66	2	14.2		6481
PCT	1.8	3.4	29.6	49.8	14.3	1.0	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	*	*	.0	.3		7.2
NE	.1	.0	.1	.1		5.8
E	.1	.1	.1	.2		5.5
SE	9.8	6.4	13.0	10.9		5.0
S	18.2	7.2	14.3	11.8		4.3
SW	1.9	.6	1.1	1.1		4.2
W	.4	.1	.3	.4		4.8
NW	.1	*	*	.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.2	.6		5.7
TOT OBS	1146	543	1084	952	3725	4.6
TOT PCT	30.8	14.6	29.1	25.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.1	.1	.1	*	*	.0	.0	.0	*	
NE	*	.0	*	*	*	.0	.0	.0	.0	.0	.1	
E	*	.0	*	.1	.2	*	*	.0	.0	*	.3	
SE	.1	.1	.4	3.1	10.2	4.9	2.4	.7	.1	.1	18.0	
S	.5	.1	.6	4.1	10.6	5.2	2.0	.5	.1	.2	27.5	
SW	*	.0	*	.3	1.0	.5	.1	.1	*	.0	2.8	
W	.0	.0	.0	.1	.3	.2	.1	.0	*	.0	.5	
NW	.1	.0	.1	.1	*	*	.0	.0	.0	.0	.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.3	.1	.1	.0	*	.0	.3	
TOT OBS	32	7	43	298	844	406	174	45	13	13	1850	3725
TOT PCT	.9	.2	1.2	8.0	22.7	10.9	4.7	1.2	.3	.3	49.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
	>10	>5	>2	>1	>1/2	>1/4	>1/8	>1/16	>1/32	>0
* OR >6500	.6	.7	.7	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >3500	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
* OR >2000	15.4	17.1	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
* OR >1000	34.0	39.1	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
* OR >600	39.9	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
* OR >300	40.4	47.7	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
* OR >150	40.4	47.8	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
* OR >0	40.5	48.2	49.2	49.4	49.6	50.0	50.2	50.2	50.2	50.2
TOTAL	1538	1830	1866	1876	1883	1896	1903	1904	1904	1904

TOTAL NUMBER OF OBS: 3794

PCT FREQ NH <5/8: 49.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.5	11.4	9.1	8.0	6.8	6.0	5.6	12.4	22.4	.9	3994

DECEMBER

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1855-1975

AREA 0017 WALVIS BAY SW
25.55 11.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	*	*	.2	*	.0	*	.0	.1	.5	
	TOT %	*	*	*	*	.3	*	.0	*	.0	.1	.5	
1/2<1	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	*	.2	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	*	.2	
1<2	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.0	.0	*	.1	.0	.0	.0	.0	*	.2	
	TOT %	*	.0	.0	*	.2	.0	.0	.0	.0	*	.3	
2<5	PCP	.0	.0	*	*	.2	.0	.0	*	.0	.0	.2	
	NO PCP	*	.0	.0	.2	.8	.1	*	*	.0	.1	1.3	
	TOT %	*	.0	*	.2	1.0	.1	*	*	.0	.1	1.6	
5<10	PCP	*	.0	.0	.2	.2	.1	.0	.0	.0	.0	.5	
	NO PCP	.1	.1	.1	5.3	11.0	.8	.2	.1	.0	.3	18.1	
	TOT %	.2	.1	.1	5.5	11.2	.8	.2	.1	.0	.3	18.6	
10+	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	*	.2	
	NO PCP	.2	.1	.5	32.7	39.4	4.2	.9	.1	.0	.6	78.7	
	TOT %	.2	.1	.5	32.8	39.5	4.2	.9	.1	.0	.6	78.9	
TOT OBS													4446
TOT PCT		.4	.1	.6	38.7	52.2	5.2	1.2	.4	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.1	*	.0	*	.0	.1	.2	
	4-10	*	*	.0	*	.1	*	.0	*	.0	*	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	*	.3	*	.0	*	.0	.1	.6	
1/2<1	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	.1	
	4-10	*	.0	.0	*	.1	*	.0	*	.0	*	.1	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	
	TOT %	*	.0	.0	.1	.1	*	.0	*	.0	*	.2	
1<2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	.1	
	4-10	*	.0	.0	*	.1	*	.0	*	.0	.2	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
	TOT %	*	.0	.0	*	.2	*	*	.0	.0	.1	.4	
2<5	0-3	.0	.0	.0	.0	.1	*	*	*	.0	.1	.3	
	4-10	*	.0	.0	*	.5	.1	.0	.0	.0	.0	.6	
	11-21	.0	.0	*	.2	.4	*	.0	*	.0	*	.6	
	22+	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	.3	
	TOT %	.1	.0	*	.3	1.1	.2	*	*	.0	.1	1.8	
5<10	0-3	.0	*	*	.1	.5	.2	.1	.1	.0	.3	1.3	
	4-10	.1	*	.1	1.0	2.9	.5	.2	.1	.0	.4	4.8	
	11-21	*	.0	.0	3.4	5.5	.3	*	*	.0	.9	9.3	
	22+	.0	.0	.0	1.3	2.1	.1	.0	.0	.0	.3	3.4	
	TOT %	.1	.1	.1	5.8	11.0	1.0	.2	.2	.0	.3	18.8	
10+	0-3	.1	.0	*	.3	.9	.3	.2	*	.0	.6	2.4	
	4-10	.1	*	.2	6.5	11.9	3.1	.7	.1	.0	.22.7		
	11-21	.0	*	.2	19.1	21.4	.9	.1	*	.0	.41.7		
	22+	.0	.0	.0	6.3	5.2	*	*	.0	.0	.11.5		
	TOT %	.1	.1	.4	32.2	39.4	4.3	1.0	.1	.0	.6	78.3	
TOT OBS													5262
TOT PCT		.4	.1	.5	38.4	52.2	5.5	1.2	.3	.0	1.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1855-1975AREA 0017 WALVIS BAY SW
25.55 11.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	1.0	.1	1.2	9.9	22.6	10.6	4.4	1.0	.4	.1	51.4	48.6	902
06609	1.5	.3	1.1	10.2	26.9	12.2	5.8	1.6	.4	.5	60.5	39.5	993
12615	1.3	.1	1.1	5.6	17.9	11.0	3.7	1.2	.2	.5	42.5	57.5	1026
18621	.6	.4	1.2	5.9	20.5	7.8	4.1	1.0	.3	.2	42.1	57.9	983
TOT	43	9	45	305	857	407	176	47	13	13	1915	1989	3904
PCT	1.1	.2	1.2	7.8	22.0	10.4	4.5	1.2	.3	.3	49.1	50.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.6	.3	.4	1.7	19.8	77.2	1367
06609	1.3	.6	.8	2.5	17.5	77.3	1304
12615	.3	.5	.3	1.3	20.2	77.3	1448
18621	.3	.1	.3	2.0	18.2	79.0	1235
TOT	34	20	24	100	1021	4175	5374
PCT	.6	.4	.4	1.9	19.0	77.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	1.0	2.6	13.6	40.5	45.9	869
06609	1.5	3.5	14.7	47.9	37.4	971
12615	1.3	2.5	9.4	34.6	56.0	994
18621	.6	2.4	9.8	33.5	56.7	960
TOT	43	105	448	1483	1863	3794
PCT	1.1	2.8	11.8	39.1	49.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	*	.0	.0	.0	.0	1	*
75/79	.0	.0	*	*	.2	.3	*	.0	20	.5
70/74	.0	.0	.0	.2	1.9	4.0	2.0	.4	338	8.5
65/69	.0	.0	.0	.3	4.4	19.2	25.2	10.0	2347	59.1
60/64	.0	.0	.0	*	1.1	5.7	11.7	8.5	1068	26.9
55/59	.0	.0	.0	.0	.0	.4	1.7	2.7	188	4.7
50/54	.0	.0	.0	.0	.0	.0	.1	.1	9	.2
TOTAL	0	0	1	20	302	1170	1615	863	3971	100.0
PCT	.0	.0	*	.5	7.6	29.5	40.7	21.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.0	.0	*	.2	.3	*	.0	.0	.0	.0
.1	.0	.1	3.1	4.1	.8	.2	*	.0	.1
.1	*	.3	27.2	27.7	2.9	.6	.1	.0	.3
.1	.1	.1	8.8	15.9	1.1	.4	.1	.0	.3
.1	.1	*	.7	3.3	.2	.1	.1	.0	.3
.0	.0	*	*	.2	.0	.0	.0	.0	.0
.3	.2	.5	39.9	51.5	5.0	1.3	.3	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	72	69	68	64	57	54	50	63.5	1774
06609	82	71	69	65	57	54	50	64.5	1488
12615	85	77	73	68	60	57	48	67.3	1837
18621	79	72	70	65	59	56	48	65.2	1421
TOT	85	74	71	65	58	55	48	64.2	6520

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.0	3.3	20.3	46.6	29.8	85	1037
06609	.0	.6	6.9	29.7	39.3	23.5	82	1003
12615	.0	1.3	14.9	39.9	32.0	11.9	78	1045
18621	.0	.1	4.7	26.4	44.9	23.8	83	977
TOT	0	21	305	1184	1650	902	82	4062

DECEMBER

PERIOD: (PRIMARY) 1927-1975
(OVER-ALL) 1855-1975

TABLE 17

AREA 0017 WALVIS BAY SW
29.95 11.9E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
17/19	.0	.0	.0	.0	.0	*	*	*	.0	3	.0	.1
14/16	.0	.0	.0	*	*	*	.1	*	*	11	.0	.3
11/13	.0	.0	.0	.2	.1	.1	.1	.1	.0	29	.1	.6
9/10	.0	.0	.2	.7	.3	.2	.2	.1	.0	72	*	1.7
7/8	.0	.0	1.0	.4	.5	.6	.3	.0	.0	116	.2	2.7
6	.0	*	.5	.1	.5	.5	.4	.0	.0	84	*	2.0
5	.0	.2	.5	.9	.6	1.3	.3	.0	.0	158	.2	3.7
4	.0	.2	.4	1.0	1.7	1.8	.2	.0	.0	217	.3	5.1
3	.0	.3	.7	.9	2.7	2.1	.2	.0	.0	281	.1	6.9
2	.0	.1	.7	1.8	5.6	2.1	*	.0	.0	425	.3	10.2
1	*	.1	.5	3.6	11.9	1.9	.1	.0	.0	727	.4	17.6
0	.0	.1	.7	5.3	13.2	1.0	*	.0	.0	820	.4	19.9
-1	.0	.0	.5	5.2	8.4	.5	.0	.0	.0	592	.1	14.6
-2	.0	*	.3	3.1	3.3	.1	.0	.0	.0	275	*	6.8
-3	.0	.0	.1	1.3	1.3	.1	.0	.0	.0	112	*	2.8
-4	.0	*	.1	.5	.6	.0	.0	.0	.0	52	.1	1.2
-5	.0	*	*	.5	.3	.0	.0	.0	.0	33	*	.8
-6	.0	*	*	.1	.1	.0	.0	.0	.0	11	.0	.3
-7/-8	.0	*	*	.1	*	.0	.0	.0	.0	9	.0	.2
-9/-10	.0	*	*	.0	*	.0	.0	.0	.0	3	*	*
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	*	*
TOTAL	*	*	260	1029	2077	511	86	13	4	4036	95	394.1
PCT	.1	1.3	6.4	25.5	51.5	12.7	2.1	.3	.1	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.0	.0	.0	.0	.3	*	.1	.1	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.2	.7	*	.0	.0	.0	.9
1-2	.0	.2	*	.0	.0	.0	.2	.2	3.6	2.0	.0	.0	.0	5.8
3-4	.0	*	.1	.0	.0	.0	.3	.0	2.7	6.5	.6	.0	.0	9.8
5-6	.0	.0	.1	.0	.0	.0	.1	.0	1.1	8.4	1.2	.0	.0	10.7
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	3.7	1.8	*	.0	5.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.5	*	.0	2.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.8	.1	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	*	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	.3	.0	.0	.0	.7	.4	8.2	21.7	6.7	.2	.0	37.2

PERIOD: (OVER-ALL) 1963-1975

DECEMBER

AREA 0017 WALVIS BAY SW
25.95 11.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.3	2.4	.1	.0	.0	.0	3.8	.2	.0	.0	.0	.0	.0	.8
1-2	.7	8.9	3.7	.0	.0	.0	13.4	.2	2.0	.1	.0	.0	.0	2.4
3-4	.1	4.3	8.6	.9	.0	.0	13.9	.0	.9	.4	*	.0	.0	1.3
5-6	.0	1.0	9.1	1.6	.0	.0	11.7	.0	*	.2	*	.0	.0	.2
7	.0	.2	4.2	1.7	.1	.0	6.2	.0	.0	.1	*	.0	.0	.1
8-9	.0	.1	1.0	.9	.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	*	.2	.8	.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0
12	.0	*	.1	.3	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	*	.2	*	*	.0	.7	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.1	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	17.1	27.3	6.7	.4	.0	53.5	.5	3.5	.8	.1	.0	.0	4.8

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.1	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.2	
1-2	.2	.7	*	.0	.0	.0	.9	.0	.2	*	.0	.0	.0	.2	
3-4	.0	.2	*	.0	.0	.0	.2	.0	*	.0	.0	.0	.0	*	
5-6	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
7	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.0	.1	.0	.0	.0	1.4	.1	.3	*	.0	.0	.0	.5	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	4.0	.2	.0	.0	.0	9.0	
1-2	1.5	15.6	5.8	.0	.0	.0	22.9	
3-4	.1	8.1	15.4	1.5	.0	.0	25.1	
5-6	.0	2.0	17.6	2.7	.0	.0	22.3	
7	.0	.2	8.0	3.5	.1	.0	11.9	
8-9	.0	.1	1.5	2.4	.1	.0	4.2	
10-11	.0	*	.5	1.6	.2	.0	2.3	
12	.0	*	.1	.5	.1	.0	.8	
13-16	.0	*	.3	.8	.1	.0	1.2	
17-19	.0	*	.1	.1	.0	.0	.2	
20-22	.0	.0	*	.0	.0	.0	*	
23-25	.0	.0	*	.0	.0	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.4	30.3	49.5	13.2	.6	.0	100.0	2811

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	3.1	6.8	6.1	4.4	1.9	1.4	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	841	5
6-7	.0	.7	3.8	6.8	7.0	4.2	3.0	1.5	1.4	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	986	7
8-9	.0	.3	1.2	4.0	5.2	4.5	2.9	1.1	1.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	715	8
10-11	.0	.7	.9	.9	1.8	1.5	1.9	.8	1.4	.2	.1	*	*	.0	.0	.0	.0	.0	.0	343	8
12-13	.0	.0	1.2	.4	.7	.6	.5	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	147	8
>13	.0	.0	.0	.3	.4	.3	.3	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	62	10
INDET	.9	.6	1.8	1.4	1.8	1.2	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	294	5
TOTAL	42	183	530	669	726	482	365	143	183	43	14	6	2	0	0	0	0	0	0	3388	7
PCT	1.2	5.4	15.6	19.7	21.4	14.2	10.8	4.2	5.4	1.3	.4	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1855-1976

ANNUAL

AREA 0017 WALVIS BAY SW
23.55 11.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE											OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WEA	
N	.3	.2	1.7	.0	.0	.0	.0	2.2	1.6	.3	22.3	1.1	4.5	*		68.0	
NE	*	.0	2.1	.0	.0	.0	.0	2.2	2.7	.0	14.1	.5	1.7	.2		78.7	
E	.7	.0	1.9	.0	.0	.0	.0	2.5	.9	.7	5.1	.1	2.4	.4		87.9	
SE	.2	.3	.4	.0	.0	.0	*	.9	.5	.3	.9	.1	1.2	.1		96.1	
S	.1	.3	.3	.0	.0	.0	*	.9	.5	.4	2.7	.1	1.8	.1		93.4	
SW	.1	.8	.8	.0	.0	.0	.0	1.7	.9	.4	3.4	.5	1.8	.2		91.2	
W	.5	.6	.9	.0	.0	.0	.0	1.9	1.0	.6	0.5	.2	2.2	.1		87.5	
NW	1.1	.3	1.2	.0	.0	.0	.0	2.6	1.0	.2	10.1	.7	2.3	*		83.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
CALM	.3	.4	1.1	.0	.0	.0	.0	1.7	.7	.6	19.1	.9	3.1	.1		73.9	
TOT PCT	.2	.3	.5	.0	.0	.0	*	1.1	.6	.4	2.6	.1	1.6	.1		93.6	
TOT OBS: 59528																	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	.2	.4	.9	.0	.0	.0	*	1.4	.6	1.1	2.5	.1	1.0	.1		93.1
06009	.3	.4	.8	.0	.0	.0	.0	1.5	.9	.1	3.8	.2	1.4	.1		92.1
12015	.1	.4	.3	.0	.0	.0	*	.7	.4	*	2.8	.2	2.7	.2		93.1
18021	.2	.2	.3	.0	.0	.0	.0	.7	.5	.2	2.0	.1	1.7	.2		94.6
TOT PCT	.2	.3	.5	.0	.0	.0	*	1.1	.6	.4	2.8	.1	1.7	.1		93.2
TOT OBS: 61143																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.8	.3	*	*	.0		1.4	6.9		1.1	1.8	1.7	2.5	1.7	1.7	.9	1.0
NE	.2	.3	.1	*	.0	.0		.6	6.3		.4	.8	.9	.8	.7	.4	.3	.5
E	.2	.6	.2	*	.0	.0		1.1	8.7		1.0	1.3	1.5	1.4	1.1	.6	.7	.9
SE	.7	8.0	20.4	8.9	.9	*		39.0	16.8		39.4	35.0	42.4	39.1	41.7	30.2	36.9	33.9
S	1.6	14.5	20.7	5.9	.5	*		43.3	13.8		43.4	44.3	41.1	48.9	40.4	45.5	46.0	53.5
SW	.7	4.7	2.1	.3	*	*		7.8	9.4		7.7	9.3	6.0	3.7	6.9	13.6	9.0	5.2
W	.4	1.6	.4	*	*	.0		2.4	7.3		2.3	2.5	1.9	.6	2.7	3.3	2.5	1.5
NW	.4	1.3	.4	*	*	.0		2.1	7.4		1.7	2.1	1.8	1.4	2.8	2.8	1.9	1.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		2.9	3.0	2.8	1.5	2.2	1.8	1.8	2.5
TOT OBS								82933	13.9		16708	5364	17210	1650	18065	5630	17041	1265
TOT PCT	6.9	31.9	44.6	15.3	1.4	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					18 21
		7-16	17-27	28-40	00 03					06 09	12 15				
N	.8	.6	.1	*	*		1.4	6.9	1.3	1.8	1.7	.9			
NE	.4	.2	*	.0	.0		.6	6.3	.5	.9	.6	.3			
E	.5	.4	.1	*	.0		1.1	8.7	1.1	1.5	1.0	.7			
SE	2.9	16.1	16.4	3.4	.1		39.0	16.8	38.3	42.1	38.9	36.7			
S	5.6	21.6	12.9	2.0	.1		43.3	13.8	43.6	41.8	41.6	46.5			
SW	2.8	4.1	.8	.1	*		7.8	9.4	8.1	5.8	8.5	8.7			
W	1.2	1.0	.1	*	.0		2.4	7.3	2.4	1.7	2.8	2.4			
NW	1.0	1.0	.1	*	*		2.1	7.4	1.8	1.8	2.8	1.9			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0			
CALM	2.4						2.4	.0	2.9	2.7	2.1	1.8			
TOT OBS						82933		13.9	22072	18860	23695	18306			
TOT PCT	18.7	44.9	30.6	5.6	.2		100.0		100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1855-1976

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AREA 0017 WALVIS BAY SW
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOOR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	2.9	4.4	31.9	44.7	14.7	1.3	*	13.7	100.0	22072
06609	2.7	4.5	32.4	43.8	15.2	1.4	*	13.8	100.0	18860
12615	2.1	4.7	31.6	44.3	15.7	1.5	*	14.0	100.0	23695
18621	1.8	4.0	31.9	45.4	15.5	1.3	*	14.1	100.0	18306
TOT								13.9		82933
PCT	2.4	4.4	31.9	44.6	15.3	1.4	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.1	.2	.4		5.4
NE	.2	.1	.1	.1		5.1
E	.5	.1	.2	.2		4.4
SE	12.9	7.8	14.7	8.6		4.5
S	16.1	6.0	11.0	8.7		4.0
SW	2.3	.9	1.4	1.2		4.0
W	.8	.4	.5	.4		4.0
NW	.6	.3	.5	.5		4.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.1	.3	.6		4.1
TOT OBS					48777	4.2
TOT PCT	34.5	15.9	29.0	20.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	*	*	.1	.2	.1	*	*	*	*	.5	
NE	*	*	*	.1	.1	*	*	*	*	.0	.3	
E	*	*	.1	.1	.1	*	*	*	*	*	.7	
SE	.1	.1	.4	3.1	9.3	5.2	1.8	.5	.2	.2	23.2	
S	.5	.1	.6	2.8	7.3	3.9	1.4	.5	.2	.2	24.4	
SW	.1	*	.1	.3	.9	.5	.2	.1	*	*	3.5	
W	*	*	.1	.3	.1	.1	*	*	*	*	1.3	
NW	.1	*	.1	.3	.2	*	*	*	*	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	*	.1	.2	.2	*	*	*	*	1.1	
TOT OBS											48777	
TOT PCT	1.0	.2	1.3	6.8	18.7	10.3	3.6	1.1	.5	.5	56.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			OR			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
* OR >6500	.7	.9	1.0	1.0	1.0	1.0	1.0	1.0	
* OR >5000	1.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
* OR >3500	4.7	5.5	5.6	5.7	5.7	5.7	5.7	5.7	
* OR >2000	13.5	15.6	15.9	15.9	15.9	15.9	15.9	15.9	
* OR >1000	29.3	33.8	34.4	34.4	34.4	34.4	34.5	34.5	
* OR >600	34.3	40.3	41.1	41.2	41.2	41.2	41.2	41.2	
* OR >300	34.9	41.4	42.3	42.4	42.4	42.5	42.5	42.5	
* OR >150	35.0	41.5	42.5	42.6	42.7	42.7	42.7	42.7	
* OR >0	35.0	41.7	42.8	43.0	43.1	43.5	43.8	43.9	

TOTAL NUMBER OF OBS: 49886

PCT FREQ NH <5/8: 56.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
19.4	10.4	9.7	8.7	7.4	5.9	8.7	11.0	18.0	.9	52387

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1855-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	.0	*	
	NO PCP	.1	*	*	.1	.4	.1	*	.1	.0	.2	.9	
	TOT %	.1	*	*	.1	.4	.1	*	.1	.0	.2	.9	
1/2<1	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	*	*	.1	*	*	*	.0	*	.3	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.3	
1<2	PCP	*	*	.0	*	*	*	*	*	.0	*	*	
	NO PCP	*	*	*	.1	.1	*	*	*	.0	*	.3	
	TOT %	*	*	*	.1	.1	*	*	*	.0	*	.4	
2<5	PCP	*	*	*	*	.1	*	*	*	.0	*	.2	
	NO PCP	.1	*	*	.4	1.1	.1	*	.1	.0	.1	2.0	
	TOT %	.1	*	*	.4	1.2	.1	*	.1	.0	.1	2.1	
5<10	PCP	*	*	*	.2	.2	.1	*	*	.0	*	.5	
	NO PCP	.3	.1	.2	6.4	9.1	1.1	.3	.3	.0	.5	18.4	
	TOT %	.4	.1	.2	6.6	9.3	1.1	.3	.4	.0	.5	18.9	
10+	PCP	*	.0	*	.1	.1	*	*	*	.0	*	.3	
	NO PCP	.5	.3	.8	35.2	31.8	4.5	1.6	1.3	.0	1.1	77.1	
	TOT %	.5	.3	.8	35.3	31.9	4.6	1.6	1.3	.0	1.1	77.4	
TOT OBS													59476
TOT PCT		1.1	.5	1.0	42.6	43.0	5.9	2.0	1.8	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	.1	*	*	*	.0	.2	.4	
	4-10	.1	*	*	.1	.2	*	*	*	.0	*	.5	
	11-21	*	*	.0	*	.1	*	*	*	.0	*	.1	
	22+	.0	*	*	*	*	.0	.0	.0	.0	*	*	
	TOT %	.1	*	*	.1	.4	.1	*	.1	.0	.2	1.0	
1/2<1	0-3	*	*	*	*	*	.0	*	*	.0	*	.1	
	4-10	*	*	*	*	.1	*	*	*	.0	*	.1	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.3	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	*	*	*	.1	*	*	*	.0	*	.2	
	11-21	*	*	*	.1	.1	*	*	*	.0	*	.1	
	22+	*	.0	.0	*	*	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	.1	.2	*	*	*	.0	*	.4	
2<5	0-3	*	*	*	*	.1	*	*	*	.0	.1	.3	
	4-10	.1	*	*	.1	.5	.1	*	*	.0	.8	.8	
	11-21	*	*	*	.2	.5	*	*	*	.0	.8	.8	
	22+	*	.0	.0	.1	.1	*	*	*	.0	.3	.3	
	TOT %	.1	*	*	.4	1.2	.2	*	.1	.0	.1	2.2	
5<10	0-3	.1	*	*	.1	.4	.1	.1	.1	.0	.5	1.4	
	4-10	.2	.1	.1	1.2	2.7	.7	.2	.2	.0	.5	5.3	
	11-21	.1	*	*	3.1	4.4	.3	*	.1	.0	.8	8.0	
	22+	*	.0	*	1.9	1.6	*	*	*	.0	.3	3.7	
	TOT %	.3	.1	.2	6.4	9.0	1.2	.3	.4	.0	.5	18.4	
10+	0-3	.1	.1	.1	.5	1.0	.4	.2	.2	.0	1.2	3.7	
	4-10	.3	.2	.4	7.0	10.7	3.3	1.1	.9	.0	24.0	37.2	
	11-21	.1	*	.2	19.0	16.3	1.1	.2	.3	.0	37.2	37.2	
	22+	*	*	*	8.3	4.4	.1	*	*	.0	12.9	12.9	
	TOT %	.5	.3	.7	34.8	32.4	4.8	1.6	1.3	.0	1.2	77.7	
TOT OBS													67363
TOT PCT		1.1	.5	1.0	41.9	43.3	6.3	2.0	1.8	.0	2.1	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1855-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00603	1.3	.2	1.1	6.5	18.6	9.9	3.3	1.1	.4	.5	42.9	57.1	11805
06609	1.5	.4	1.7	9.0	22.5	12.0	4.2	1.4	.5	.5	53.7	46.3	13148
12615	.9	.2	1.1	4.9	16.0	9.2	3.1	1.1	.5	.5	37.5	62.5	13649
18621	.7	.2	1.1	6.1	15.8	9.0	3.2	1.0	.4	.5	37.9	62.1	12468
TOT PCT	1.1	.2	1.3	6.6	18.2	10.0	3.5	1.1	.5	.5	43.0	57.0	51070 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00603	1.1	.3	.4	1.7	18.8	77.7	17302
06609	1.7	.4	.5	3.1	18.2	76.0	16734
12615	.8	.4	.5	2.1	19.6	76.6	19013
18621	.8	.2	.3	2.2	17.2	79.3	15957
TOT PCT	1.1	.3	.4	2.3	18.5	77.4	69006 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00603	1.4	2.9	10.6	34.2	55.2	11480
06609	1.5	3.9	14.9	40.8	44.3	12915
12615	1.0	2.4	8.9	30.3	60.8	13307
18621	.7	2.2	9.8	29.7	60.5	12184
TOT PCT	1.1	2.8	11.1	33.8	55.1	49886 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	*	*	*	.0	.0	.0	.0	*	*
80/84	*	.0	*	*	*	*	*	.0	.1	.1
75/79	.0	*	*	.1	.2	.3	.1	*	.7	.7
70/74	*	*	*	.2	1.6	3.7	3.2	1.0	9.7	9.7
65/69	.0	*	*	.4	3.0	10.4	13.4	5.1	32.4	32.4
60/64	.0	*	*	.5	3.8	11.2	14.9	8.2	38.7	38.7
55/59	.0	.0	*	.2	1.1	3.5	6.8	5.0	16.5	16.5
50/54	.0	.0	.0	.0	*	*	.5	1.2	1.8	1.8
45/49	.0	.0	.0	.0	*	*	*	.1	.1	.1
TOTAL PCT	*	*	.2	1.4	9.8	29.2	38.9	20.6	51370	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	.0	.0	.0	.0	.0
.0	.0	*	*	*	*	*	*	.0	.0
*	*	*	.3	.3	*	*	*	.0	*
*	*	.1	5.0	3.8	.5	.1	.1	.0	.1
.1	.1	.3	16.0	12.8	1.7	.6	.4	.0	.4
.3	.2	.5	17.0	15.6	2.6	1.0	.9	.0	.7
.3	.1	.2	5.6	8.1	1.1	.3	.3	.0	.5
.1	*	*	.2	1.0	.1	*	.1	.0	.3
*	*	*	*	.1	*	.0	.0	.0	*
1.0	.4	1.0	44.2	41.6	6.1	2.1	1.8	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	88	68	66	63	55	53	44	61.9	22311
06609	87	69	67	63	56	53	45	62.4	19108
12615	86	75	71	66	58	55	45	65.0	23776
18621	85	70	67	64	57	54	46	63.1	18463
TOT	88	72	69	64	56	54	44	63.2	83658

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	*	.8	6.3	24.9	41.2	26.9	83	13393
06609	.0	1.4	8.8	27.6	39.3	22.8	82	12887
12615	.0	3.1	16.3	36.2	32.4	12.0	78	13740
18621	*	1.0	7.2	26.7	42.8	22.3	82	12584
TOT	2	843	5136	15223	20425	10975	81	52604

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1855-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	.0	5	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	.0	13	.0	*
17/19	.0	.0	.0	.0	.0	*	*	*	*	*	*	.0	41	.0	.1
14/18	.0	.0	.0	.0	.0	*	*	*	*	*	*	.0	105	*	.2
11/13	.0	.0	.0	.0	.0	.1	.1	.1	.1	*	*	.0	214	*	.4
9/10	.0	.0	.0	*	.1	.2	.2	.2	.1	.1	*	.0	428	*	.8
7/8	.0	.0	.0	*	.3	.4	.4	.3	.2	.1	*	.0	893	.1	1.6
6	.0	.0	.0	*	.3	.3	.3	.3	.2	*	.0	.0	776	.1	1.4
5	.0	.0	*	.2	.4	.8	.7	.5	.3	*	.0	.0	1602	.1	2.8
4	.0	.0	*	.3	.5	1.1	.9	.7	.3	*	.0	.0	2048	.2	3.6
3	.0	.0	*	.3	.7	1.6	1.5	1.1	.3	*	.0	.0	3060	.2	5.5
2	.0	*	.1	.4	1.3	2.8	2.3	1.8	.2	*	.0	.0	4832	.3	8.7
1	.0	*	.1	.5	2.4	4.6	3.9	2.8	.2	*	.0	.0	7758	.4	14.0
0	.0	*	.1	.6	3.7	6.2	5.3	2.9	.1	*	.0	.0	10261	.4	18.6
-1	.0	*	.1	.5	4.5	5.6	4.9	1.9	*	*	.0	.0	9568	.3	17.2
-2	.0	*	.1	.4	3.5	3.4	2.8	.6	*	.0	.0	.0	5950	.2	10.6
-3	.0	*	*	.3	2.3	1.8	1.3	.4	*	.0	.0	.0	3409	.1	6.0
-4	.0	*	.1	.2	1.1	1.0	.9	.1	*	.0	.0	.0	1680	.1	2.9
-5	.0	*	*	.2	.6	.6	.3	.1	.0	.0	.0	.0	993	.1	1.7
-6	.0	*	*	*	.2	.2	.1	*	*	.0	.0	.0	297	*	.5
-7/-8	.0	.0	*	*	.2	.2	.1	*	*	.0	.0	.0	302	*	.5
-9/-10	.0	.0	*	*	.1	*	*	*	.0	.0	.0	.0	79	*	.1
-11/-13	.0	*	*	*	*	*	*	*	.0	.0	.0	.0	43	*	.1
-14/-16	.0	*	*	*	*	*	*	.0	.0	.0	.0	.0	16	*	*
-17/-19	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	4	*	*
TOTAL													54377		
PCT	*	.1	.7	3.9	22.2	31.0	25.8	13.8	2.1	.3	.1	*	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	*	.0	.0	.0	.3	.1	.1	*	.0	.0	.0	.1
1-2	.1	.3	.1	.0	.0	.0	.5	*	.2	*	.0	.0	.0	.2
3-4	*	.1	.0	.0	.0	.0	.2	*	*	*	.0	.0	.0	.1
5-6	*	*	*	.0	.0	.0	.1	*	*	*	.0	.0	.0	*
7	*	*	*	.0	.0	.0	.1	*	*	*	.0	.0	.0	*
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	.3	*	.0	.0	1.1	.1	.2	.1	*	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	*	.0	.0	.0	.2	.3	.6	*	.0	.0	.0	1.0
1-2	*	.3	*	.0	.0	.0	.4	.2	3.9	1.8	.0	.0	.0	5.9
3-4	*	.1	.1	*	.0	.0	.2	*	2.7	7.0	.6	.0	.0	10.4
5-6	.0	*	.1	*	.0	.0	.1	*	.6	7.6	2.0	.1	.0	10.3
7	*	*	*	*	.0	.0	.1	*	.1	4.3	2.6	.1	*	7.1
8-9	.0	.0	*	*	.0	.0	*	.0	*	1.2	2.0	.2	*	3.4
10-11	.0	.0	*	*	.0	.0	*	*	*	.4	1.5	.2	*	2.1
12	.0	.0	.0	*	.0	.0	*	.0	*	.1	.5	.1	*	.7
13-16	.0	.0	*	*	.0	.0	*	.0	*	.1	.6	.2	*	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.2	.1	*	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.3	.1	.0	.0	1.0	.6	8.1	22.5	10.1	1.0	*	42.2

PERIOD: (OVER-ALL) 1963-1976

ANNUAL

AREA 0017 WALVIS BAY SW
25.55 11.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.0	1.9	.1	.0	.0	.0	2.0		.2	.4	*	.0	.0	.0	.0	.7
1-2	.5	7.6	2.8	.0	.0	.0	10.9		.2	2.1	.2	.0	.0	.0	.0	2.6
3-4	.1	3.9	7.4	.5	.0	.0	11.9		*	.8	.5	*	.0	.0	.0	1.3
5-6	*	.7	6.9	1.1	*	.0	8.7		*	.1	.3	*	.0	.0	.0	.4
7	*	.2	3.1	1.5	.1	*	4.9		.0	*	.1	*	.0	.0	.0	.1
8-9	.0	.1	1.0	1.1	.1	*	2.3		.0	*	*	*	.0	.0	.0	*
10-11	.0	*	.4	.9	.1	*	1.4		.0	*	*	*	.0	.0	.0	*
12	.0	*	.1	.3	*	.0	.4		.0	*	*	*	.0	.0	.0	*
13-16	.0	*	.1	.3	.1	*	.5		.0	.0	*	.0	*	.0	.0	*
17-19	.0	.0	*	*	*	.1	*		.0	.0	*	*	*	.0	.0	*
20-22	.0	.0	*	*	*	.0	*		.0	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	*	.0	*	.0	*		.0	.0	.0	.0	.0	.0	.0	*
26-32	.0	.0	.0	*	.0	.0	*		.0	.0	.0	.0	.0	.0	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*
TOT PCT	1.5	14.4	21.9	5.8	.4	*	44.1		.5	3.5	1.1	.1	*	.0	.0	5.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.2	*	.0	.0	.0	.4		.2	.2	*	.0	.0	.0	.0	.4	
1-2	.1	.8	.1	.0	.0	.0	1.0		.1	.7	.1	.0	.0	.0	.0	.9	
3-4	*	.2	.1	*	.0	.0	.4		*	.2	*	*	*	.0	.0	.4	
5-6	*	*	.1	*	.0	.0	.1		*	*	.1	*	*	.0	.0	.1	
7	.0	*	*	.0	.0	.0	*		.0	*	*	*	*	.0	.0	*	
8-9	.0	*	*	*	.0	.0	*		.0	*	*	*	*	.0	.0	*	
10-11	.0	*	*	.0	.0	.0	*		.0	*	.0	*	*	.0	.0	*	
12	.0	.0	*	*	.0	.0	*		.0	*	.0	.0	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	*	.0	.0	.0	*	
17-19	.0	.0	*	.0	.0	.0	*		.0	.0	.0	.0	.0	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	*	
TOT PCT	.3	1.3	.3	*	.0	.0	1.9		.3	1.2	.3	*	.0	.0	.0	1.8	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	3.8	.2	.0	.0	.0	9.4	
1-2	1.4	15.8	5.1	.0	.0	.0	22.3	
3-4	.2	7.9	15.1	1.2	.0	.0	24.4	
5-6	*	1.5	14.8	3.2	.1	.0	19.6	
7	*	.3	7.5	4.1	.2	*	12.2	
8-9	.0	.1	2.2	3.0	.3	*	5.7	
10-11	.0	.1	.7	2.4	.3	*	3.5	
12	.0	*	.2	.8	.1	*	1.1	
13-16	.0	*	.2	.9	.3	*	1.3	
17-19	.0	*	*	.2	.1	*	.3	
20-22	.0	.0	*	*	.1	.0	.1	
23-25	.0	.0	*	*	*	.0	*	
26-32	.0	.0	.0	.0	.0	.0	*	
33-40	.0	.0	.0	.0	.0	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.1	29.6	46.0	15.8	1.4	*	100.0	38248

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	3.8	5.9	4.8	3.2	1.7	1.1	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10099	5
6-7	*	.8	3.9	5.9	6.1	4.1	3.2	1.5	1.4	.3	.2	.1	*	.0	.0	.0	.0	.0	.0	12503	7
8-9	*	.4	1.5	3.6	4.1	3.8	3.2	1.7	2.0	.6	.2	.1	*	*	.0	.0	.0	.0	.0	9950	8
10-11	.0	.8	.7	1.1	2.1	1.8	1.7	.9	1.1	.4	.1	.1	*	*	.0	.0	.0	.0	.0	4947	8
12-13	.0	.0	1.0	.3	.8	.6	.8	.4	.6	.2	.1	.1	*	*	.0	.0	.0	.0	.0	2334	9
>13	.0	.0	.0	.4	.5	.4	.3	.2	.3	.1	.1	.1	*	*	.0	.0	.0	.0	.0	1073	10
INDET	1.3	1.0	1.7	1.8	1.6	1.1	.8	.3	.3	.1	*	*	*	*	.0	.0	.0	.0	.0	4580	5
TOTAL																				45486	7
PCT	2.2	6.8	14.7	18.1	18.9	13.6	11.1	5.4	6.1	1.9	.7	.3	.1	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1925-1976
(OVER-ALL) 1855-1976

TABLE 20

AREA 0017 WALVIS BAY SW
25.55 11.9E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0
79/80	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	15	.0
77/78	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	26	.0
75/76	.4	.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	89	.1
73/74	1.2	3.4	2.5	1.0	.1	.1	.0	.0	.0	.0	.0	.1	500	.6
71/72	5.7	13.2	12.2	4.8	1.0	.2	.1	.0	.0	.0	.1	1.0	2303	3.0
69/70	21.9	28.8	26.8	18.8	4.9	1.0	.3	.1	.1	.0	.5	4.2	6504	8.4
67/68	30.1	21.6	22.6	29.7	18.6	4.5	.9	.4	.3	.5	3.4	18.0	9251	12.0
65/66	14.0	7.7	9.7	14.6	28.0	15.2	3.9	1.4	.9	1.7	13.7	29.5	8803	11.4
63/64	7.8	6.4	7.5	8.6	18.6	32.1	19.9	8.8	7.3	14.4	33.7	21.4	12062	15.7
61/62	5.4	5.5	5.1	5.9	6.9	17.6	30.0	30.0	25.7	32.5	22.8	7.6	12952	16.8
59/60	4.6	5.3	5.7	4.9	7.0	9.2	18.1	28.0	32.1	24.2	8.8	5.1	10173	13.2
57/58	3.7	3.4	4.0	5.6	6.0	7.2	9.2	12.3	13.0	9.3	6.6	4.3	5549	7.2
55/56	3.0	2.2	2.6	3.4	5.3	7.3	8.6	8.8	9.2	7.3	4.2	3.9	4338	5.6
53/54	1.1	1.3	.8	1.5	2.0	3.3	5.1	6.5	6.1	5.1	2.7	2.0	2469	3.2
51/52	.9	.4	.1	.9	1.3	1.8	2.7	3.0	3.4	3.9	2.7	2.5	1549	2.0
49/50	.1	.1	.0	.1	.1	.2	.9	.7	1.7	.9	.7	.3	406	.5
47/48	.0	.1	.0	.0	.0	.2	.1	.0	.0	.1	.0	.0	14	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	6050	5518	6445	6155	6491	6368	6998	6832	6905	6633	6624	6027	77046	100.0
MEAN	65.9	66.8	66.6	65.4	63.6	61.7	60.0	59.2	58.9	59.7	61.7	63.7	62.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1013	1014	1015	1014	1013	1013	1014	1014	5114
FEB	1014	1013	1014	1015	1014	1013	1013	1014	1014	4719
MAR	1014	1013	1014	1015	1014	1013	1013	1015	1014	5479
APR	1016	1015	1016	1017	1016	1015	1015	1016	1015	5303
MAY	1017	1017	1017	1018	1017	1016	1017	1018	1017	5450
JUN	1020	1019	1019	1021	1019	1018	1019	1020	1019	5541
JUL	1021	1020	1021	1022	1021	1020	1020	1021	1021	5988
AUG	1020	1020	1020	1021	1020	1019	1020	1020	1020	5938
SEP	1019	1018	1019	1020	1018	1017	1018	1019	1019	6059
OCT	1017	1017	1018	1018	1017	1016	1017	1018	1017	5757
NOV	1016	1015	1016	1016	1016	1014	1015	1016	1016	5817
DEC	1015	1014	1015	1016	1015	1014	1014	1015	1015	5047
ANN	1017	1016	1017	1018	1017	1016	1016	1017	1017	66212
OBS	14005	2629	14368	1723	15298	2778	14140	1271		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1004	1008	1010	1012	1014	1016	1018	1019	1024
FEB	1003	1007	1010	1012	1014	1015	1018	1019	1024
MAR	1003	1007	1010	1012	1014	1016	1018	1019	1024
APR	1005	1008	1011	1014	1015	1017	1020	1022	1026
MAY	1005	1010	1013	1015	1017	1019	1022	1024	1028
JUN	1004	1011	1014	1017	1019	1021	1025	1027	1032
JUL	1007	1013	1016	1019	1021	1023	1026	1028	1032
AUG	1008	1012	1014	1018	1020	1022	1026	1027	1030
SEP	1008	1012	1014	1016	1018	1020	1024	1026	1030
OCT	1007	1010	1013	1015	1017	1019	1022	1024	1028
NOV	1005	1009	1011	1014	1015	1017	1020	1022	1028
DEC	1005	1009	1011	1013	1015	1016	1019	1020	1024

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1895-1976

JANUARY

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	2.9	.0	2.9	.0	.0	.0	.0	5.8	3.9	.0	6.8	.0	.0	.0	83.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96.3
SE	.0	.3	.3	.0	.0	.0	.0	.7	.4	.3	.7	.0	.0	.0	96.7
S	.2	.1	.9	.0	.0	.0	.0	1.1	.8	.5	1.3	.2	.0	.1	94.3
SW	.3	.7	1.6	.0	.0	.0	.0	2.4	1.9	.7	1.1	.1	1.5	.0	92.3
W	1.1	1.0	.8	.0	.0	.0	.0	2.9	1.6	.0	.8	.3	.4	.0	92.9
NW	.4	.0	2.9	.0	.0	.0	.0	3.3	1.8	.0	.2	.0	1.8	.0	92.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83.7
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	12.2	.0	2.0	.0	94.5
TOT PCT	.2	.3	.8	.0	.0	.0	.0	1.3	.9	.5	1.2	.1	1.4	.1	94.5
TOT OBS:	5855														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	.1	.1	1.0	.0	.0	.0	.0	1.1	.6	1.7	1.1	.1	.8	.1	94.5
06009	.3	.5	1.4	.0	.0	.0	.0	2.1	1.2	.1	1.6	.2	.9	.1	93.9
12015	.4	.4	.5	.0	.0	.0	.0	1.2	1.2	.0	1.3	.1	2.1	.1	94.1
18021	.1	.2	.5	.0	.0	.0	.0	.7	.6	.2	.8	.1	1.8	.1	95.7
TOT PCT	.2	.3	.8	.0	.0	.0	.0	1.3	.9	.5	1.2	.1	1.4	.1	94.5
TOT OBS:	5951														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.4	.1	.0	.0	.0	.0	.6	7.2	.4	.4	1.0	.0	.7	.6	.4	.0	
NE	.1	.1	.0	.0	.0	.0	.0	.2	4.9	.2	.1	.2	.0	.3	.2	.1	.0	
E	.0	.2	.1	.0	.0	.0	.0	.4	11.3	.3	1.3	.6	.0	.3	.6	.2	.0	
SE	.3	3.4	12.2	7.7	.7	.0	.0	23.8	18.5	23.2	21.2	28.4	24.3	26.6	16.3	20.2	22.3	
S	.6	11.8	28.5	11.3	.7	.1	.0	52.9	16.3	52.7	50.4	50.6	55.1	52.0	53.9	56.9	61.0	
SW	.6	7.0	6.1	1.1	.1	.0	.0	14.9	11.8	15.5	19.5	12.1	13.2	12.5	20.0	16.3	13.7	
W	.4	2.7	1.2	.2	.0	.0	.0	4.5	9.6	4.6	5.0	3.9	1.6	4.9	5.8	4.0	2.0	
NW	.2	1.1	.7	.0	.0	.0	.0	2.0	9.5	1.6	2.2	2.1	5.8	2.4	2.4	1.4	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7							.7	.0	1.4	.0	1.1	.0	.4	.1	.5	.0	
TOT OBS	281	2500	4575	1851	141	6	9354	15.5		1806	727	1982	108	2110	702	1817	102	
TOT PCT	3.0	26.7	48.9	19.8	1.5	.1	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.3	.2	.0	.0	.0	.6	7.2	.4	.9	.6	.3	.3	.3
NE	.2	.0	.0	.0	.0	.2	4.9	.2	.2	.3	.1	.1	.1
E	.2	.2	.1	.0	.0	.4	11.3	.6	.6	.4	.2	.2	.2
SE	1.2	8.0	11.7	2.8	.1	23.8	18.5	22.6	28.2	24.0	20.3	17.1	17.1
S	3.9	23.5	22.0	3.5	.2	52.9	16.3	52.0	50.9	52.5	57.1	57.1	57.1
SW	3.2	8.1	3.4	.2	.0	14.9	11.8	16.6	12.2	14.4	16.1	16.1	16.1
W	1.4	2.6	.5	.0	.0	4.5	9.6	4.7	3.8	5.1	3.9	3.9	3.9
NW	.6	1.3	.2	.0	.0	2.0	9.5	1.8	2.3	2.4	1.4	1.4	1.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7					.7	.0	1.0	1.1	.3	.5	.5	.5
TOT OBS	1081	4092	3541	614	26	9354	15.5	2533	2090	2812	1919	1919	1919
TOT PCT	11.6	43.7	37.9	6.6	.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1895-1976AREA 0018 ALEXANDER BAY SW
30.4S 14.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.0	2.1	27.5	48.2	19.5	1.7	*	15.5	100.0	2533
0600	1.1	3.1	28.4	48.5	17.8	1.1	*	14.9	100.0	2090
1200	.3	4.7	26.5	49.5	20.1	.9	.1	15.4	100.0	2812
1800	.5	1.3	24.3	49.6	21.8	2.6	.1	16.3	100.0	1919
TOT	66	215	2500	4575	1851	141	6	15.5		9354
PCT	.7	2.3	26.7	48.4	19.8	1.5	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL	MEAN CLOUD COVER
N	.2	.1	.1	.1		4.1
NE	*	*	*	.0		2.6
E	.1	*	.1	.1		4.6
SE	10.5	5.3	6.6	3.7		3.7
S	25.6	8.9	13.9	7.5		3.5
SW	4.3	1.6	3.0	1.5		3.0
W	1.8	.7	.8	.7		3.7
NW	.7	.4	.5	.3		3.9
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.2	.1		3.3
TOT OBS	2144	848	1239	689	4920	3.6
TOT PCT	43.6	17.2	25.2	14.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999			OBS
N	.0	*	.0	*	.1	*	*	.0	*	.0	.3	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
E	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.2	
SE	.1	.1	.3	1.5	3.8	2.2	.7	.2	.1	*	17.0	
S	.1	.1	.6	3.3	8.1	4.4	1.5	.2	.1	.3	37.3	
SW	*	*	.1	.7	1.6	1.0	.4	.1	*	.1	6.5	
W	.0	.0	*	.3	.5	.4	*	.0	*	*	2.7	
NW	*	.0	*	.1	.2	.2	*	.0	.0	*	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	*	.1	.1	.0	.0	.0	*	.5	
TOT OBS	13	7	48	299	706	415	129	24	15	22	3242	4920
TOT PCT	.3	.1	1.0	6.1	14.3	8.4	2.6	.5	.3	.4	65.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	.7	.7	.7	.7	.7	.7	.7
>5000	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>3500	3.2	3.8	3.9	3.9	3.9	3.9	3.9	3.9
>2000	10.3	12.1	12.3	12.3	12.3	12.3	12.3	12.3
>1000	22.7	26.2	26.6	26.7	26.7	26.7	26.7	26.7
>600	27.2	32.1	32.6	32.7	32.7	32.7	32.7	32.7
>300	27.8	32.9	33.5	33.7	33.7	33.7	33.7	33.7
>150	27.9	33.0	33.7	33.8	33.8	33.8	33.8	33.8
>0	27.9	33.1	33.8	34.0	34.0	34.1	34.2	34.2
TOTAL	1389	1648	1684	1691	1693	1697	1700	1700

TOTAL NUMBER OF OBS: 4978

PCT FREQ NH <5/8: 65.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
19.3	18.0	11.4	9.5	7.0	5.1	7.3	9.4	12.8	.2	5264

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1855-1976

JANUARY

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY														TOTAL	
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT		OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.1	.3		
	TOT %	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.1	.3		
1/2<1	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*		
	NO PCP	.0	.0	.0	*	.3	.0	.0	.0	.0	.0	.0	.3		
	TOT %	.0	.0	.0	*	.3	.0	.0	.0	.0	.0	.0	.3		
1<2	PCP	.0	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1		
	NO PCP	.0	.0	.0	.1	.4	*	*	.0	.0	.0	.0	.5		
	TOT %	.0	.0	.0	.1	.4	.1	*	.0	.0	.0	.0	.6		
2<5	PCP	*	.0	.0	*	.1	.1	*	*	.0	.0	.0	.3		
	NO PCP	*	.0	*	.1	.4	.1	*	.1	.0	*	.9	.9		
	TOT %	.1	.0	*	.2	.5	.2	.1	.1	.0	*	1.2			
5<10	PCP	.0	.0	.0	.1	.2	.1	*	*	.0	.0	.0	.4		
	NO PCP	.0	*	.1	3.4	8.7	1.0	.4	.2	.0	.0	.2	14.8		
	TOT %	*	*	.1	3.5	8.9	2.0	.4	.2	.0	.0	.2	15.3		
10+	PCP	*	.0	.0	*	.3	.1	*	*	.0	.0	.0	.5		
	NO PCP	.3	.1	.2	21.9	44.7	9.1	3.3	1.6	.0	.6	81.9			
	TOT %	.3	.1	.2	22.0	45.0	9.1	3.4	1.6	.0	.6	82.4			
TOT OBS														5853	
TOT PCT															
		.4	.1	.3	25.9	55.2	11.4	3.9	1.9	.0	.8	100.0			

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY														TOTAL	
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT		OBS	
<1/2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	.1			
	4-10	.0	.0	.0	*	.1	*	.0	.0	.0		.2			
	11-21	.0	.0	.0	*	.1	*	.0	.0	.0		.1			
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0			
	TOT %	.0	.0	.0	.1	.2	*	.0	.0	.0		.4			
1/2<1	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*			
	4-10	.0	.0	.0	*	.1	.0	.0	.0	.0		.1			
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1			
	22+	.0	.0	.0	*	*	.0	.0	.0	.0		*			
	TOT %	.0	.0	.0	*	.2	.0	.0	.0	.0		.2			
1<2	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	*	*			
	4-10	.0	.0	.0	*	.1	.1	*	.0	.0		.2			
	11-21	.0	.0	.0	*	.1	*	.0	.0	.0		.2			
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2			
	TOT %	.0	.0	.0	.1	.4	.1	*	.0	.0		.6			
2<5	0-3	*	.0	.0	*	*	*	.0	.0	.0	*	.1			
	4-10	*	.0	.0	*	.3	.2	.1	*	.0		.6			
	11-21	*	.0	*	.1	.3	.1	*	*	.0		.6			
	22+	.0	.0	.0	.1	.1	*	.0	.0	.0		.1			
	TOT %	.1	.0	*	.2	.7	.3	.1	.1	.0		1.4			
5<10	0-3	*	.0	.0	.1	.1	.1	.1	.1	.0	.1	.5			
	4-10	*	*	*	.4	1.7	.8	.2	.2	.0		3.3			
	11-21	.0	.0	*	1.8	4.7	.9	*	.0	.0		7.5			
	22+	.0	*	*	1.3	2.0	.2	.1	*	.0		3.6			
	TOT %	.1	*	.1	3.6	8.5	1.9	.4	.2	.0	.1	14.9			
10+	0-3	*	*	*	.2	.5	.4	.3	.1	.0	.6	2.2			
	4-10	.3	.1	.1	3.1	10.4	5.5	2.2	.8	.0		22.5			
	11-21	.1	.0	.1	11.5	24.7	3.4	.7	.6	.0		41.0			
	22+	.0	.0	.0	6.5	9.8	.4	.1	.0	.0		16.8			
	TOT %	.4	.1	.2	21.3	45.3	9.8	3.3	1.5	.0	.6	82.5			
TOT OBS														6805	
TOT PCT															
		.5	.1	.3	25.3	55.3	12.1	3.7	1.8	.0	.8	100.0			

JANUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1859-1976AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.4	.0	1.2	6.5	16.1	9.8	2.7	.4	.2	.7	38.1	61.9	1130
06009	.4	.2	1.4	8.2	19.7	10.6	3.5	.9	.4	.4	45.7	54.3	1384
12015	.1	.1	.6	3.6	9.4	6.2	2.0	.4	.4	.3	23.1	76.9	1421
18021	.2	.2	.6	5.1	11.0	6.3	2.1	.2	.2	.3	26.1	73.9	1205
TOT PCT	15 .3	7 .1	48 .9	300 5.8	770 14.0	422 8.2	132 2.6	24 .5	15 .3	22 .4	1705 33.2	3435 66.8	5140 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.1	.5	1.4	17.2	80.2	1736
06009	.7	.2	.6	1.4	14.1	83.0	1720
12015	.4	.5	.8	1.4	14.4	82.5	1948
18021	.1	.2	.5	1.4	13.8	84.1	1497
TOT PCT	28 .4	18 .3	42 .6	97 1.4	1029 14.9	5687 82.4	6901 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.5	1.7	9.1	30.8	60.2	1092
06009	.4	2.3	11.8	35.5	52.7	1347
12015	.1	1.1	5.8	18.6	75.6	1366
18021	.2	.9	6.8	20.3	72.9	1173
TOT PCT	15 .3	76 1.5	417 8.4	1306 26.2	3255 65.4	4978 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	*	.0	.0	.0	.0	1	*
80/84	.0	.0	.0	.1	.1	.0	.0	.0	8	.2
75/79	.0	.0	*	.2	.5	.7	.2	*	82	1.6
70/74	.0	.0	.1	.7	3.9	8.1	7.3	2.1	1156	22.2
65/69	.0	.0	.1	.8	5.8	18.5	27.5	14.8	3516	67.4
60/64	.0	.0	*	.1	.8	1.2	3.1	2.7	418	8.0
55/59	.0	.0	.0	*	*	*	.3	.3	31	.6
50/54	.0	.0	.0	.0	.0	.0	*	*	1	*
TOTAL	0	8	100	581	1484	2000	1040	5213	100.0	
PCT	.0	.0	.2	1.9	11.1	28.5	38.4	20.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	*	*	.0	.0	.0	.0	.0
80/84	.0	.0	*	.1	.1	.0	.0	.0	.0	.0
75/79	*	.0	*	.5	.8	.1	.1	.1	.0	.0
70/74	.1	*	.1	5.3	11.3	2.7	1.5	1.0	.0	.2
65/69	.2	.1	.1	18.2	38.5	7.1	2.1	.9	.0	.3
60/64	*	*	*	1.7	4.7	1.2	.2	.1	.0	.1
55/59	.0	.0	.0	.2	.3	.1	*	.0	.0	*
50/54	.0	.0	.0	.0	*	*	.0	.0	.0	.0
TOTAL	.4	.1	.3	25.9	55.5	11.2	3.9	2.0	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	71	70	66	62	59	55	66.1	2529
06009	86	74	71	67	63	59	54	67.2	2093
12015	87	78	75	70	65	61	54	69.7	2776
18021	80	73	71	68	63	61	56	67.6	1918
TOT	37	76	73	68	63	59	54	67.7	9316

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.2	7.9	21.6	40.8	28.5	83	1280
06009	.0	1.9	10.0	27.0	38.1	23.0	81	1377
12015	.0	3.6	18.5	35.2	32.7	10.0	77	1444
18021	.0	1.4	6.8	28.9	42.6	20.3	82	1179
TOT	0	110	586	1498	2020	1066	81	5280

JANUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1855-1976

TABLE 17

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
20/22	.0	.0	.0	.0	*	*	.0	.0	*	3	.0	.1
14/16	.0	.0	*	.1	.1	*	.0	.0	.0	14	.0	.3
11/13	.0	.0	.0	.1	.1	.1	.2	.1	.0	27	*	.5
9/10	.0	.0	.2	.2	.2	.2	.1	*	.0	45	.0	.8
7/8	.0	.1	.2	.2	.5	.7	.3	*	.0	110	*	2.0
6	.0	.1	.1	.3	.6	.5	.1	.0	.0	86	.0	1.6
5	*	.2	.4	.8	1.4	1.0	*	.0	.0	205	.1	3.8
4	.1	.2	.5	1.0	2.6	.7	*	.0	.0	269	.2	4.8
3	.1	.1	.5	2.4	3.4	.6	*	.0	.0	373	.1	6.9
2	.0	*	1.0	4.7	5.4	.5	.0	*	.0	616	.2	11.4
1	*	.1	.8	9.0	7.3	.2	.0	*	.0	929	.2	17.2
0	*	.1	1.0	12.0	5.7	.1	*	.0	.0	1010	.2	18.8
-1	.0	.0	.8	9.8	3.4	*	.0	.0	.0	749	.1	14.0
-2	*	*	.9	5.5	1.2	*	.0	.0	.0	411	.1	7.6
-3	.0	.0	.7	3.0	.6	.0	.0	.0	.0	225	.0	4.2
-4	.0	*	.6	1.3	.2	*	.0	.0	.0	116	.0	2.2
-5	.0	*	.3	1.0	.2	.0	.0	.0	.0	78	.0	1.5
-6	.0	*	.2	.2	*	.0	.0	.0	.0	25	.0	.5
-7/-8	.0	*	.1	.2	.1	.0	.0	.0	.0	19	.0	.4
-9/-10	.0	*	.1	*	.0	.0	.0	.0	.0	7	.0	.1
-11/-13	*	.0	.0	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	14	49	441	2762	253	40	9	1	5321	63	5258	
PCT	.3	.9	8.3	51.9	32.9	4.8	.8	.2	*	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	*	.1	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	*	*
1-2	*	.2	*	.0	.0	.0	.2	*	.1	.0	.0	.0	.0	.0	.1	.1
3-4	*	.2	*	.0	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	*	.0	*	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.1	.0	.0	.0	.6	*	.1	.0	.0	.0	*	.0	.1	.1

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	*	*	.0	.0	.0	.0	.1	.1	.1	.1	*	.0	.0	.0	.2	.2
1-2	*	.0	*	.0	.0	.0	.1	.1	2.0	1.2	.0	.0	.0	.0	3.4	.1
3-4	.0	.1	*	.0	.0	.0	.1	.0	1.2	3.4	.4	.0	.0	.0	5.0	.5
5-6	.0	.1	.1	.0	.0	.0	.1	.0	.2	4.9	1.2	*	.0	.0	6.3	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.3	.1	.0	.0	4.5	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.7	.1	*	.0	2.5	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.2	.0	.0	1.4	.4
12	.0	.0	.0	.0	*	.0	*	.0	.0	.1	.6	.1	.0	.0	.8	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	*	.0	.0	.4	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.1	.1	.0	*	.0	.4	.3	3.5	12.7	7.6	.6	*	.0	24.7	.7

PERIOD: (OVER-ALL) 1963-1976

JANUARY

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.5	.1	.0	.0	.0		.5	.1	.5	.0	.0	.0	.0		.6
1-2	.3	6.7	2.8	.0	.0	.0		9.7	.4	2.7	.7	.0	.0	.0		4.8
3-4	.0	3.9	10.9	.9	.0	.0		15.6	.0	1.5	1.5	.1	.0	.0		3.1
5-6	.0	.7	9.8	2.3	.0	.0		12.8	.0	.2	1.0	.1	.0	.0		1.4
7	.0	.2	5.1	3.5	.0	.0		8.9	.0	.0	.3	.1	.0	.0		.4
8-9	.0	.1	1.3	2.5	.1	.0		4.0	.0	.0	.0	.0	.0	.0		.1
10-11	.0	.0	.5	1.5	.2	.0		2.2	.0	.0	.1	.0	.0	.0		.2
12	.0	.0	.1	.7	.1	.0		1.0	.0	.0	.1	.0	.0	.0		.1
13-16	.0	.1	.1	.6	.1	.0		.8	.0	.0	.0	.1	.0	.0		.1
17-19	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	12.1	30.7	12.0	.5	.0		54.9	.4	6.0	3.8	.4	.0	.0		10.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.3	.0	.0	.0	.0		.5	.1	.0	.0	.0	.0	.0		.1	
1-2	.2	2.0	.3	.0	.0	.0		2.5	.2	.6	.1	.0	.0	.0		1.0	
3-4	.0	.6	.5	.0	.0	.0		1.0	.0	.2	.6	.0	.0	.0		.8	
5-6	.0	.1	.2	.0	.0	.0		.3	.0	.0	.2	.0	.0	.0		.2	
7	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.0	1.2	.1	.0	.0		4.7	.2	1.0	.9	.0	.0	.0		2.1	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	1.5	.1	.0	.0	.0	3.3	
1-2	1.4	15.4	5.2	.0	.0	.0	22.0	
3-4	.1	7.5	16.8	1.4	.0	.0	25.9	
5-6	.1	1.3	16.1	3.6	.1	.0	21.1	
7	.0	.2	7.6	6.0	.1	.0	13.9	
8-9	.0	.1	2.1	4.2	.2	.0	6.7	
10-11	.0	.0	.8	2.4	.4	.0	3.8	
12	.0	.0	.3	1.3	.2	.0	1.9	
13-16	.0	.1	.1	1.0	.1	.0	1.3	
17-19	.0	.0	.0	.1	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	26.2	49.2	20.0	1.2	.0	100.0	3353

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	2.9	4.6	4.1	3.3	1.7	1.4	.5	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	862	6
6-7	.0	.5	2.5	5.7	6.4	4.8	4.5	2.1	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1233	8
8-9	.0	.1	1.0	3.2	4.6	3.9	4.0	2.4	2.4	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	978	9
10-11	.0	.1	.5	1.1	2.0	2.1	2.0	1.2	1.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	476	10
12-13	.0	.0	.4	.5	.7	.9	1.1	.5	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	242	11
>13	.0	.0	.0	.2	.5	.8	.6	.2	.3	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	145	7
INDET	.4	.6	1.2	1.7	1.9	1.3	1.3	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	403	8
TOTAL PCT	.9	4.0	10.3	16.4	19.5	15.5	14.9	7.3	8.0	2.2	.6	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1916-1976
(OVER-ALL) 1855-1976

FEBRUARY

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.6	.0	8.3	.0	.0	.0	.0	8.3	.0	.0	18.6	.0	.0	.0	73.1	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.5	.0	.0	.0	80.5	
E	.0	.0	.0	.0	.0	.0	.0	.0	6.2	.0	.0	.0	4.6	.0	89.2	
SE	.4	.4	.3	.0	.0	.0	.0	1.1	.9	.3	1.3	*	.7	.1	95.7	
S	.5	.5	.7	.0	.0	.0	*	1.6	1.0	.7	1.4	.1	1.9	.0	93.4	
SW	.9	.4	1.2	.0	.0	.0	.0	2.6	1.2	.8	2.4	.2	1.7	.0	91.1	
W	.8	.8	1.2	.0	.0	.0	.0	2.7	3.3	.8	2.3	.0	.8	.0	90.1	
NW	.0	2.1	1.8	.0	.0	.0	.0	3.9	3.7	1.1	7.4	.0	1.1	.0	82.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	2.3	30.2	2.3	.0	.0	62.8	
TOT PCT	.5	.5	.7	.0	.0	.0	*	1.6	1.1	.6	2.0	.1	1.5	*	93.1	
TOT OBS:	5157															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.5	.6	.9	.0	.0	.0	.0	1.9	1.2	1.9	1.8	.0	.9	.0	92.5
06009	.8	.7	1.1	.0	.0	.0	.1	2.6	1.6	.2	2.9	.1	1.1	.1	91.4
12015	.3	.3	.3	.0	.0	.0	.0	1.0	.6	.0	2.2	.1	2.2	.1	93.8
18021	.4	.3	.3	.0	.0	.0	.0	.9	.9	.3	1.5	.2	1.7	.0	94.5
TOT PCT	.5	.5	.7	.0	.0	.0	*	1.6	1.1	.6	2.1	.1	1.5	*	93.0
TOT OBS:	5251														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OHS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.4	.1	*	*	.0		.7	8.6	.6	.2	.9	.0	.8	.4	.7	.0	
NE	.1	.1	*	*	.0	.0		.2	7.0	.2	.2	.4	.0	.4	.0	.2	.0	
E	*	.2	*	*	*	*		.4	10.1	.4	.6	.3	.0	.3	.3	.3	1.4	
SE	.5	4.8	14.7	7.8	.8	*		28.7	17.8	28.0	25.9	32.3	36.6	31.2	24.1	25.5	18.5	
S	1.0	13.3	27.5	8.8	.6	.0		51.3	15.3	51.3	50.1	49.2	48.6	49.1	52.8	55.3	69.5	
SW	.8	6.8	4.8	.6	*	.0		13.1	10.7	13.7	15.6	11.1	11.4	11.7	17.0	14.1	8.6	
W	.4	1.7	.7	.1	.0	.0		2.9	8.4	3.3	3.6	2.5	.0	3.3	3.1	2.2	2.1	
NW	.3	1.2	.4	*	.0	.0		2.0	8.3	1.6	2.8	2.1	1.1	2.3	2.1	1.4	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9							.9	.0	.8	1.1	1.2	2.3	1.1	.2	.4	.0	
TOT OBS	392	2327	3932	1416	121	1	8129	14.9		1577	631	1736	88	1825	593	1606	73	
TOT PCT	4.1	28.6	48.4	17.4	1.5	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OHS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.3	.3	*	*	.0			.7	8.6	.5	.8	.7	.6	
NE	.1	.1	*	.0	.0			.2	7.0	.2	.4	.2	.2	
E	.2	.1	*	*	*			.4	10.1	.5	.3	.3	.3	
SE	1.9	10.3	13.3	3.2	.1			28.7	17.8	27.4	32.3	29.4	25.2	
S	4.9	24.1	19.4	2.8	*			51.3	15.3	50.9	49.1	50.0	55.9	
SW	3.6	7.2	2.2	.1	.0			13.1	10.7	14.2	11.1	13.0	13.9	
W	1.3	1.3	.2	*	.0			2.9	8.4	3.4	2.4	3.2	2.2	
NW	.9	1.0	.1	*	.0			2.0	8.3	2.0	2.1	2.3	1.3	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	.9							.9	.0	.9	1.3	.9	.4	
TOT OBS	1143	3609	2868	496	13	8129		14.9		2208	1824	2418	1679	
TOT PCT	14.1	44.4	35.3	6.1	.2			100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1916-1976
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.9	3.4	29.8	46.7	17.6	1.5	.0	14.8	100.0	2208
06009	1.3	3.8	29.3	48.4	15.7	1.5	.1	14.5	100.0	1824
12015	.9	3.2	28.9	48.3	17.3	1.4	.0	14.7	100.0	2418
18021	.4	2.2	26.0	50.6	19.2	1.6	.0	15.6	100.0	1679
TOT	70	262	2327	3932	1416	121	1	14.9		8129
PCT	.9	3.2	28.6	48.4	17.4	1.5	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS<D	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	.3	.1		4.4
NE	*	*	*	.1		5.2
E	.1	.1	.1	*		3.5
SE	10.4	5.6	10.7	5.1		4.2
S	19.1	8.5	16.2	8.3		4.0
SW	3.4	1.9	3.3	1.5		4.2
W	.9	.5	.9	.3		4.0
NW	.5	.2	.5	.3		4.6
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.2	.2		4.2
TOT OBS	1533	747	1405	696	4381	4.1
TOT PCT	35.0	17.1	32.1	15.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	.0	*	*	.1	*	*	.0	*	.0	.3	
*	.0	*	*	*	.0	*	.0	.0	.0	.1	
.0	.0	*	*	*	*	.0	.0	*	.0	.2	
.1	*	.4	2.2	6.4	3.5	1.1	.1	.1	.1	17.9	
.1	.1	.7	4.4	10.0	4.7	1.3	.2	.1	.2	30.3	
.1	*	.1	.7	1.7	1.1	.2	*	*	*	6.2	
*	.0	.1	.1	.4	.2	.1	.1	*	*	1.6	
*	.0	*	*	.2	.1	.1	*	*	*	1.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	*	.0	*	.2	.0	*	.0	*	.0	.4	
18	9	55	326	831	423	123	23	18	17	2538	4381
.4	.2	1.3	7.4	19.0	9.7	2.8	.5	.4	.4	57.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	.7	.8	.8	.8	.8	.8	.8
>5000	1.0	1.3	1.3	1.4	1.4	1.4	1.4	1.4
>3500	3.4	4.0	4.1	4.1	4.1	4.1	4.1	4.1
>2000	11.9	13.5	13.7	13.7	13.7	13.7	13.7	13.7
>1000	28.1	32.2	32.5	32.6	32.6	32.6	32.6	32.6
>600	34.0	39.4	40.0	40.0	40.0	40.0	40.0	40.0
>300	34.7	40.4	41.1	41.2	41.2	41.2	41.3	41.3
>150	34.8	40.6	41.3	41.4	41.4	41.4	41.5	41.5
>0	34.9	40.7	41.5	41.5	41.6	41.7	41.9	41.9
TOTAL	1549	1808	1842	1846	1849	1851	1861	1863

TOTAL NUMBER OF OBS: 4443

PCT FREQ NH <5/8: 58.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
16.5	13.5	10.6	9.5	7.4	7.5	9.8	11.0	14.0	4634

PERIOD: (PRIMARY) 1916-1976
(OVER-ALL) 1855-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	
	NO PCP	.1	*	.0	.1	.2	.1	.0	*	.0	.2	.7	
	TOT %	.1	*	.0	.1	.2	.1	.0	*	.0	.2	.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	.0	.0	.1	.1	*	.0	*	.0	*	.3	
	TOT %	.0	.0	.0	.1	.1	*	.0	*	.0	*	.3	
1<2	PCP	*	.0	.0	*	.0	.0	*	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.1	.2	.1	.0	*	.0	.0	.5	
	TOT %	*	.0	.0	.2	.2	.1	.0	*	.0	.0	.5	
2<5	PCP	*	.0	.0	*	.2	*	.0	.0	.0	.0	.3	
	NO PCP	*	*	*	.1	.3	.2	*	*	.0	.1	.8	
	TOT %	.1	*	*	.2	.5	.2	*	*	.0	.1	1.0	
5<10	PCP	*	.0	.0	.2	.4	.1	*	*	.0	.0	.8	
	NO PCP	.2	.1	.1	4.7	8.8	1.8	.3	.2	.0	.1	16.4	
	TOT %	.2	.1	.1	4.9	9.2	2.0	.4	.3	.0	.1	17.2	
10+	PCP	.0	.0	.0	.1	.3	.1	*	*	.0	.0	.6	
	NO PCP	.4	.1	.2	25.4	41.6	8.2	2.0	1.4	.0	.4	79.7	
	TOT %	.4	.1	.2	25.5	41.9	8.3	2.1	1.5	.0	.4	80.3	
TOT OBS													5152
TOT PCT		.8	.2	.3	30.9	52.1	10.6	2.5	1.8	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	*	*	.0	*	.0	.1	.2	
	4-10	.1	*	.0	.1	.1	.1	.0	*	.0		.3	
	11-21	*	.0	.0	*	.1	*	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	.0	.1	.2	.1	.0	*	.0	.1	.7	
1/2<1	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	*	.1	*	.0	*	.0		.1	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.1	.1	*	.0	*	.0	*	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	*	.1	*	.0	*	.0	.0	.2	
	11-21	.0	.0	.0	.1	.1	*	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	.0	.1	.2	.1	.0	*	.0	.0	.5	
2<5	0-3	*	.0	.0	*	.1	.0	.0	.0	.0	.1	.1	
	4-10	*	.0	.0	*	.2	.1	*	.0	.0		.4	
	11-21	.0	*	*	.1	.3	.1	*	.0	.0		.5	
	22+	.0	.0	.0	.1	.1	*	*	.0	.0		.1	
	TOT %	.1	*	*	.2	.6	.2	*	*	.0	.1	1.2	
5<10	0-3	.0	*	*	.1	.2	.1	.1	*	.0	.2	.7	
	4-10	.1	*	*	.8	2.4	1.1	.2	.2	.0		4.9	
	11-21	*	*	*	2.0	4.9	.9	.1	*	.0		7.9	
	22+	.0	*	.0	1.7	1.6	.1	*	.0	.0		3.5	
	TOT %	.2	.1	.1	4.6	9.1	2.2	.4	.3	.0	.2	17.0	
10+	0-3	.1	*	*	.4	.8	.5	.2	.2	.0	.5	2.7	
	4-10	.2	*	.2	3.9	10.6	5.3	1.3	.9	.0		22.2	
	11-21	.1	.0	*	13.8	23.0	3.0	.5	.4	.0		40.8	
	22+	*	*	*	6.9	7.4	.3	*	*	.0		14.7	
	TOT %	.4	.1	.2	24.9	41.8	9.1	2.0	1.4	.0	.5	80.4	
TOT OBS													6021
TOT PCT		.7	.2	.3	30.1	52.1	11.6	2.4	1.8	.0	.9	100.0	

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PERIOD: (PRIMARY) 1916-1976
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.6	.0	.9	9.0	20.5	9.2	2.5	.6	.5	.3	44.2	55.8	986
06009	.7	.2	1.6	8.5	24.2	12.6	3.7	.6	.7	.5	53.3	46.7	1229
12015	.2	.2	1.1	4.9	12.9	7.6	1.8	.6	.2	.4	30.0	70.0	1255
18021	.3	.3	1.1	7.3	16.6	8.5	2.8	.3	.2	.4	37.8	62.2	1064
TOT	20	9	55	333	839	431	123	24	18	18	1870	2664	4534
PCT	.4	.2	1.2	7.3	18.5	9.5	2.7	.5	.4	.4	41.2	58.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.2	.5	1.0	20.4	77.3	1542
06009	1.2	.4	.5	1.6	15.3	81.1	1520
12015	.8	.3	.6	1.1	16.6	80.6	1718
18021	.4	.1	.4	1.3	15.4	82.3	1337
TOT	48	15	29	76	1039	4910	6117
PCT	.8	.2	.5	1.2	17.0	80.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.6	1.6	11.4	34.2	54.4	956
06009	.7	2.8	12.0	42.4	45.7	1213
12015	.2	1.8	7.5	23.6	68.9	1229
18021	.3	1.8	10.0	28.6	61.3	1045
TOT	20	90	451	1430	2562	4443
PCT	.5	2.0	10.2	32.2	57.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	*	*	.0	.0	7	.2
75/79	.0	.0	.1	.1	.6	.7	.4	.1	94	2.0
70/74	.0	.0	*	.5	3.7	8.0	7.9	2.8	1058	23.0
65/69	.0	.0	.1	.9	6.5	17.3	27.1	14.5	3054	66.4
60/64	.0	.0	.0	.1	.5	1.3	2.7	3.1	356	7.7
55/59	.0	.0	.0	.0	*	.1	.3	.3	31	.7
TOTAL	0	0	9	80	524	1267	1766	954	4600	100.0
PCT	.0	.0	.2	1.7	11.4	27.5	38.4	20.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
.1	.0	.0	.0	.7	.8	.2	.1	.1	.0	.0
.2	.1	*	*	7.2	11.8	2.5	.8	.5	.0	.1
.3	.1	.2	.2	21.2	34.7	7.0	1.4	.9	.0	.5
.4	.2	*	*	1.7	4.4	.9	.2	.2	.0	.2
.5	.1	.0	.0	.2	.3	*	.0	*	.0	.0
.7	.2	.3	31.1	52.1	10.6	2.6	1.7	.0	.7	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	72	70	67	62	59	55	66.5	2189
06009	80	74	71	67	63	60	56	67.2	1817
12015	83	78	75	70	65	63	58	69.9	2407
18021	78	74	72	68	64	61	57	67.8	1669
TOT	83	76	73	68	63	60	55	67.9	8082

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	7.9	21.9	40.9	28.0	83	1127
06009	.0	1.6	10.1	25.3	39.0	24.0	82	1223
12015	.0	3.7	18.2	33.9	32.7	11.6	77	1281
18021	.0	.8	8.2	28.0	42.0	21.0	82	1052
TOT	0	89	531	1286	1799	978	81	4683

PERIOD: (PRIMARY) 1916-1976
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	*	.1	.0	*	.0	5	*	.1
14/16	.0	.0	.0	*	*	.1	*	.1	12	*	.2
11/13	.0	.0	*	.1	.1	.1	*	*	20	*	.4
9/10	.0	.0	.0	.2	.1	.1	.0	.0	31	.1	.6
7/8	.0	*	.2	.4	.5	.6	.3	.0	97	*	2.0
6	.0	*	.2	.5	.5	.7	.1	.0	93	*	1.9
5	.0	.1	.3	.9	1.1	1.2	.1	*	175	.1	3.5
4	*	.1	.5	1.1	2.0	1.1	*	.0	228	.2	4.6
3	.0	.1	.8	2.5	2.4	.7	.0	.0	309	.1	6.4
2	*	.1	1.0	4.1	4.2	.5	.0	.0	473	.4	9.5
1	*	.2	1.0	7.9	6.4	.5	*	.0	759	.3	15.7
0	.0	.1	1.2	10.4	7.6	.1	*	.0	923	.4	19.0
-1	.0	*	.7	9.7	4.6	.0	.0	.0	716	.2	14.9
-2	.0	*	.5	6.9	1.5	*	.0	.0	424	.1	8.8
-3	.0	*	.5	3.7	1.0	.0	.0	.0	246	.1	5.1
-4	.0	.0	.3	2.3	.3	.0	.0	.0	136	.0	2.9
-5	.0	.0	.3	.7	.1	.0	.0	.0	55	*	1.1
-6	.0	.0	*	.4	.0	*	.0	.0	20	.0	.4
-7/-8	.0	*	.2	.2	*	.0	.0	.0	19	*	.4
-9/-10	.0	.0	*	.1	*	.0	.0	.0	8	.0	.2
-11/-13	.0	.0	.0	*	.0	.0	.0	.0	2	.0	*
TOTAL	3	43	370	2476	1553	262	38	7	4752	107	4645
PCT	.1	.9	7.8	52.1	32.7	5.5	.8	.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	*	.2	.1	.0	.0	.0	.3	*	*	*	.0	.0	.0	.1
3-4	.0	.1	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*
5-6	.0	.0	.1	.0	.0	.0	.1	.0	*	*	.0	.0	.0	*
7	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.3	.2	.1	.0	.0	.6	*	.1	*	*	.0	.0	.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	*	.0	.0	.0	.0	.0	.1	.1	.4	*	.0	.0	.0	.5
1-2	.0	.1	.0	.0	.0	.0	.1	.2	2.3	1.5	.0	.0	.0	3.9
3-4	.0	.1	*	.0	.0	.0	.1	.1	1.4	4.5	.3	.0	.0	6.5
5-6	.0	.0	*	.0	.0	.0	*	.0	.6	5.0	2.1	.0	.0	7.7
7	.0	.0	.0	.0	.0	.0	.0	.0	*	3.6	3.0	.1	.0	6.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.0	.1	.0	3.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.1	.3	.0	2.0
12	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.4	.1	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.2	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.2	.1	.0	.0	.0	.3	.4	4.7	16.5	9.5	.9	.0	32.1

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	*	.0	.0	.0	.9	.2	.5	*	.0	.0	.0	.7
1-2	.3	9.7	2.3	.0	.0	.0	8.3	.1	3.4	.6	.0	.0	.0	4.0
3-4	.1	4.0	9.5	.8	.0	.0	14.4	*	2.0	1.1	*	.0	.0	3.1
5-6	.0	1.2	9.6	1.9	*	.0	17.8	.1	.4	1.4	.1	.0	.0	1.9
7	.0	.1	4.8	2.4	*	.0	7.3	.0	*	.3	.1	.0	.0	.4
8-9	.0	.0	1.5	2.3	.1	.0	3.8	.0	.0	.1	*	.0	.0	.1
10-11	.0	*	.7	1.3	.2	.0	2.2	.0	.0	*	*	.0	.0	*
12	.0	.0	*	.6	.1	.0	.7	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.7	.1	.0	.8	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	11.8	28.4	10.1	.6	.0	51.5	.3	6.3	3.5	.3	.0	.0	10.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.1	.0	.0	.0	.0	.3	*	.1	.0	.0	.0	.0	.2	
1-2	.1	1.2	*	.0	.0	.0	1.3	.1	.5	.1	.0	.0	.0	.7	
3-4	.0	.4	.4	.0	.0	.0	.8	*	.1	.1	.0	.0	.0	.2	
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.2	
7	.0	.0	*	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.7	.7	.1	.0	.0	2.8	.2	.7	.4	.0	.0	.0	1.3	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	2.0	.1	.0	.0	.0	4.2	
1-2	.9	13.3	4.6	.0	.0	.0	18.9	
3-4	.2	8.0	15.5	1.3	.0	.0	25.0	
5-6	.1	2.3	16.3	4.1	*	.0	22.8	
7	.0	.2	8.7	5.4	.1	.0	14.4	
8-9	.0	.0	2.6	4.3	.2	.0	7.1	
10-11	.0	*	1.3	2.5	.5	.0	4.3	
12	.0	*	.2	1.0	.1	.0	1.4	
13-16	.0	.0	.1	1.0	.3	.0	1.3	
17-19	.0	*	*	.1	.1	.0	.3	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	25.9	49.3	19.8	1.5	.0	100.0	2968

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.4	3.0	5.5	6.1	4.0	2.1	1.1	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	878	5
6-7	.0	.4	3.3	5.8	6.8	4.6	4.0	2.3	2.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1131	8
8-9	.0	.2	1.3	2.4	4.2	4.8	4.5	2.5	2.0	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	864	9
10-11	.0	.2	.3	.7	1.9	1.2	1.8	1.0	1.3	.4	*	.0	*	.0	.0	.0	.0	.0	.0	.0	340	9
12-13	.0	.0	.5	.6	.4	.9	.8	.4	1.0	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	192	9
>13	.0	.0	.0	.4	.2	.4	.3	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	63	9
INDET	.6	.8	1.3	1.6	1.4	.8	1.1	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	325	6
TOTAL	38	176	464	662	720	565	510	285	266	73	25	7	2	0	0	0	0	0	0	0	3773	7
PCT	1.0	4.6	12.2	17.5	19.0	14.9	13.4	7.5	7.0	1.9	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1855-1976

MARCH

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.0	.0	2.0	.0	.0	.0	.0	3.9	.0	1.0	7.8	2.0	3.4	.0	81.9	
NE	.0	3.1	.0	.0	.0	.0	.0	3.1	.0	1.6	9.3	3.1	3.1	.0	79.8	
E	.0	1.3	.0	.0	.0	.0	.0	1.3	1.9	2.6	1.9	.0	5.1	.0	87.2	
SE	.3	.2	.3	.0	.0	.0	.0	.7	.3	.7	1.1	*	1.3	.1	95.8	
S	.2	.3	.5	.0	.0	.0	.0	.9	1.0	.7	2.0	.2	1.9	*	93.3	
SW	.2	.6	.9	.0	.0	.0	.0	1.7	.6	1.2	4.6	.4	1.4	.0	90.1	
W	.0	1.5	1.5	.0	.0	.0	.0	3.1	.6	.9	5.7	.6	2.9	.0	86.1	
NW	1.0	3.1	.3	.0	.0	.0	.0	4.4	3.1	1.0	5.1	1.0	2.3	.0	83.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	8.6	.0	1.2	.0	87.7	
TOT PCT	.3	.4	.5	.0	.0	.0	.0	1.1	.7	.8	2.2	.2	1.7	.1	93.2	
TOT OBS:	5956															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.3	.4	.7	.0	.0	.0	.0	1.3	.6	2.2	1.8	.4	1.0	.0	92.7
06009	.4	.3	.6	.0	.0	.0	.0	1.2	1.2	.4	2.4	.1	1.7	.0	93.0
12015	.2	.4	.3	.0	.0	.0	.0	.8	.3	.0	3.0	.2	2.6	.1	93.0
18021	.1	.4	.4	.0	.0	.0	.0	.8	.8	.8	1.9	.2	1.5	.1	94.0
TOT PCT	.2	.4	.5	.0	.0	.0	.0	1.0	.7	.8	2.3	.2	1.7	*	93.1
TOT OBS:	6100														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DRS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21	
N	.2	.6	.2	*	.0	.0	.9	7.9		.7	1.1	1.0	1.8	1.0	1.3	.9	.0	
NE	.1	.4	.1	*	.0	.0	.6	7.6		.4	.8	.4	.2	.9	.5	.5	1.1	
E	.1	.3	.2	*	.0	.0	.6	9.9		.6	.3	.9	.7	.7	.5	.5	.0	
SE	.5	5.5	15.2	9.1	1.2	*	31.5	18.3		31.7	28.3	33.4	30.3	34.3	25.0	29.5	30.7	
S	1.3	14.2	23.8	7.7	.6	*	47.5	14.8		47.1	43.7	48.7	52.4	45.5	48.4	49.5	52.9	
SW	.9	6.3	3.6	.6	*	.0	11.5	10.2		11.4	16.7	9.4	9.7	10.1	14.4	12.4	11.8	
W	.5	2.3	.9	.1	*	.0	3.8	8.7		4.3	4.3	2.8	2.9	3.5	6.3	3.9	1.1	
NW	.3	1.1	.5	.1	*	.0	2.0	9.2		1.8	2.1	1.8	.2	2.3	2.8	2.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6						1.6	.0		2.1	2.8	1.6	1.8	1.7	.7	.8	2.3	
TOT OBS	502	2841	4104	1624	172	3	9246	14.7		1791	722	1979	113	2121	669	1764	87	
TOT PCT	5.4	30.7	44.4	17.6	1.9	*	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.4	.5	*	*	.0	.0	.9	7.9	.8	1.0	1.1	.9	
NE	.3	.2	*	*	.0	.0	.6	7.6	.5	.4	.8	.5	
E	.2	.3	.1	.0	.0	.0	.6	9.9	.5	.9	.7	.5	
SE	1.9	10.8	14.6	3.9	.2	31.5	18.3		30.8	33.2	32.1	29.5	
S	5.2	23.1	16.6	2.5	.1	47.5	14.8		46.1	48.9	46.2	49.7	
SW	3.5	6.1	1.6	.2	.0	11.5	10.2		12.9	9.5	11.1	12.3	
W	1.7	1.7	.6	*	.0	3.8	8.7		4.3	2.8	4.1	3.8	
NW	.9	1.0	.2	*	.0	2.0	9.2		1.9	1.7	2.5	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	
CALM	1.6					1.6	.0		2.3	1.6	1.4	.9	
TOT OBS	1459	4046	3104	611	26	9246	14.7		2513	2092	2790	1851	
TOT PCT	15.8	43.8	33.6	6.6	.3	100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1855-1976

MARCH

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	2.3	3.9	32.0	43.3	17.1	1.4	.1	14.3	100.0	2513
06609	1.6	3.7	31.1	44.6	16.9	2.1	.0	14.6	100.0	2092
12615	1.4	4.5	29.8	44.4	17.8	2.0	*	14.7	100.0	2790
18621	.9	3.0	30.1	45.5	18.6	1.9	.0	15.2	100.0	1851
TOT	147	355	2841	4104	1624	172	3	14.7		9246
PCT	1.6	3.8	30.7	44.4	17.6	1.9	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	.2	.2		4.2
NE	.3	*	.1	.1		2.4
E	.4	.1	.1	.1		3.0
SE	17.5	6.2	8.8	3.5		3.1
S	23.5	8.1	11.4	5.3		3.2
SW	3.4	1.4	2.4	1.1		3.8
*W	1.2	.5	.6	.5		3.8
NW	.6	.2	.5	.3		4.2
VAR	.0	.0	.0	.0		.0
CALM	.8	.1	.3	.2		2.9
TOT OBS	2431	856	1232	565	5084	3.3
TOT PCT	47.8	16.8	24.2	11.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	6000+ ANY	NH <5/8 HGT	TOTAL OBS
*	.0	.0	*	.1	.1	*	*	.0	*	.5	
*	.0	*	.0	*	.0	.0	.0	.0	.0	.4	
*	.0	.0	*	.1	*	.0	.0	.0	.0	.5	
.1	.1	.3	2.1	4.4	2.0	1.0	.2	.1	.1	25.5	
.1	.1	.7	3.2	6.0	2.7	.7	.4	.3	.1	33.9	
.1	*	.2	.7	1.0	.3	.3	.1	*	.1	5.4	
.1	.0	.1	.1	.4	.2	.1	*	*	.0	1.8	
.0	*	.1	.1	.2	.1	*	*	*	.0	1.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.1	.1	*	.0	*	.0	1.0	
*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
27	10	.67	324	625	284	111	38	27	14	3557	5084
.5	.2	1.3	6.4	12.3	5.6	2.2	.7	.5	.3	70.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/3) AND VSBY (NM)

CEILING (FEET)	* OR >10	* OR >5	* OR >2	VSBY (NM) * OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.8	.8	.8	.8	.8	.8	.8
* OR >5000	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	3.1	3.6	3.7	3.7	3.7	3.7	3.7	3.7
* OR >2000	7.9	9.2	9.3	9.3	9.3	9.3	9.3	9.3
* OR >1000	17.9	21.2	21.4	21.4	21.4	21.4	21.4	21.4
* OR >600	22.7	27.4	27.7	27.8	27.8	27.8	27.8	27.8
* OR >300	23.4	28.5	29.0	29.1	29.1	29.1	29.1	29.1
* OR >150	23.5	28.7	29.2	29.3	29.3	29.3	29.3	29.3
* OR > 0	23.6	29.0	29.5	29.6	29.7	29.8	29.8	29.8
TOTAL	1223	1501	1531	1536	1540	1541	1547	1547

TOTAL NUMBER OF OBS: 5184

PCT FREQ NH <5/8: 70.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
25.8	16.1	11.3	9.5	6.7	5.4	6.9	8.1	9.8	.4	5433

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1855-1970

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AREA 0018 ALEXANDER BAY SW
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	*	.0	*	.1	.1	*	*	.0	.1	.4	
	TOT %	.1	*	.0	*	.1	.1	*	*	.0	.1	.4	
1/2<1	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	*	.2	*	*	*	.0	.0	.3	
	TOT %	.0	.0	.0	*	.2	*	*	*	.0	.0	.3	
1<2	PCP	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.1	.2	*	.0	.0	.0	.0	.4	
2<5	PCP	*	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	.1	*	.0	.1	.5	.2	.0	.1	.0	.1	.9	
	TOT %	.1	*	.0	.1	.5	.2	.0	.1	.0	.1	1.0	
5<10	PCP	*	*	*	.1	.3	.1	.1	.1	.0	.0	.6	
	NO PCP	.3	.2	.1	4.9	9.0	2.1	.5	.4	.0	.3	17.7	
	TOT %	.3	.3	.1	5.0	9.3	2.2	.5	.4	.0	.3	18.3	
10+	PCP	.0	.0	.0	.1	.1	*	*	*	.0	.0	.3	
	NO PCP	.4	.2	.0	28.8	38.4	6.7	2.1	1.1	.0	1.0	79.4	
	TOT %	.4	.2	.0	28.9	38.5	6.8	2.1	1.1	.0	1.0	79.6	
TOT OBS													5953
TOT PCT		.9	.5	.7	34.1	48.8	9.3	2.7	1.6	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
	4-10	*	*	.0	*	.1	*	*	*	.0	.0	.3	
	11-21	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	.1	.2	.1	*	*	.0	*	.5	
1/2<1	0-3	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	4-10	.0	.0	.0	*	.1	*	*	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	*	.0	*	.0	.0	.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	.2	*	*	*	.0	.0	.3	
1<2	0-3	.0	.0	.0	*	*	*	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.3	*	.0	.0	.0	.0	.4	
2<5	0-3	*	.0	.0	*	*	*	.0	.0	.0	*	.1	
	4-10	*	*	.0	.1	.2	.1	.0	.0	.0	.0	.4	
	11-21	*	.0	.0	.1	.2	.1	*	*	.0	.0	.4	
	22+	.0	.0	.0	*	.1	*	.0	*	.0	.0	.2	
	TOT %	.1	*	.0	.2	.5	.2	*	*	.0	*	1.2	
5<10	0-3	*	*	*	.1	.2	.2	.1	.1	.0	.2	1.0	
	4-10	.2	.1	.1	.8	3.1	1.2	.4	.2	.0	.0	6.1	
	11-21	*	*	*	2.1	4.3	.5	.1	.1	.0	.0	7.3	
	22+	*	*	.0	1.7	1.5	.2	*	*	.0	.0	3.5	
	TOT %	.3	.2	.1	4.8	9.1	2.2	.6	.4	.0	.2	17.9	
10+	0-3	.1	*	.1	.3	.9	.5	.4	.2	.0	1.2	3.6	
	4-10	.3	.2	.2	4.8	11.2	4.5	1.5	.7	.0	.0	23.3	
	11-21	.1	*	.2	13.7	20.2	2.2	.4	.3	.0	.0	37.1	
	22+	*	*	*	9.2	6.2	.1	*	.1	.0	.0	15.7	
	TOT %	.6	.3	.6	28.0	38.4	7.2	2.3	1.2	.0	1.2	79.7	
TOT OBS													6893
TOT PCT		.9	.6	.6	33.2	48.7	9.8	3.0	1.7	.0	1.5	100.0	

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PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1855-1976

TABLE 10

AREA 0018 ALEXANDER BAY SW
30.45 14.7EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.4	1.1	0.6	12.2	5.3	2.7	.9	.2	.3	30.2	69.8	1188
06009	.5	.1	1.6	7.2	15.0	8.0	2.7	1.0	.3	.2	36.0	63.4	1464
12015	.5	.1	1.0	4.8	8.9	3.7	1.6	.6	1.0	.3	22.0	77.4	1507
18021	.5	.1	1.4	6.6	11.1	4.8	1.6	.3	.4	.2	27.1	72.9	1163
TOT PCT	28 .5	10 .2	68 1.3	333 0.3	627 11.8	292 5.5	114 2.1	38 .7	27 .5	14 .3	1551 29.1	3771 70.9	5322 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.3	.2	1.6	18.8	78.4	1774
06009	.8	.3	.5	.8	16.7	81.0	1780
12015	.5	.4	.5	1.1	18.2	79.2	2023
18021	.3	.2	.5	1.5	17.5	80.0	1466
TOT PCT	42 .6	21 .3	30 .4	87 1.2	1255 17.8	5608 79.6	7043 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	2.3	9.7	22.0	68.4	1157
06009	.6	2.5	10.5	27.2	62.3	1434
12015	.5	1.7	7.3	16.4	76.2	1461
18021	.5	2.0	9.3	18.9	71.8	1132
TOT PCT	28 .5	111 2.1	474 9.1	1098 21.2	3612 69.7	5184 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	*	.0	*	.0	.0	.0	.0	.0	2	*
80/84	.0	.0	*	*	.1	*	.0	.0	10	.2
75/79	.0	*	*	.1	.4	.6	.2	.0	74	1.4
70/74	.0	.0	.1	.3	2.0	5.9	5.4	1.7	828	15.4
65/69	.0	.0	.0	.9	4.5	15.0	29.8	16.9	3610	67.1
60/64	.0	.0	.0	.2	1.3	2.8	4.6	6.2	812	15.1
55/59	.0	.0	.0	.0	.0	*	.1	.6	42	.8
TOTAL	1	1	7	86	445	1310	2163	1365	5378	100.0
PCT	*	*	.1	1.6	8.3	24.4	40.2	25.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	*	*	*	.0	.0	.0	.0
80/84	.0	.0	.0	.1	.1	.0	.0	*	.0	.0
75/79	*	*	*	.4	.7	.1	*	.1	.0	*
70/74	*	.1	.2	5.7	7.1	1.4	.4	.3	.0	.2
65/69	.3	.3	.3	23.9	33.2	5.6	1.8	1.0	.0	.8
60/64	.4	.1	.1	4.2	7.6	1.5	.4	.3	.0	.4
55/59	.1	.1	*	.1	.3	.1	*	*	.0	.0
TOTAL	.8	.6	.6	34.5	49.0	8.8	2.6	1.7	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	71	69	66	61	59	56	65.7	2499
06009	82	73	70	66	62	59	54	66.3	2125
12015	86	78	74	69	64	61	55	69.0	2797
18021	86	73	71	67	62	59	56	66.9	1836
TOT	86	76	72	67	62	59	54	67.1	9257

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.5	5.8	18.9	40.6	34.2	84	1320		
06009	.0	.9	7.0	23.8	39.3	29.0	83	1443		
12015	.1	4.0	13.3	32.0	36.9	13.8	79	1544		
18021	.0	1.3	6.4	21.0	44.5	26.8	83	1190		
TOT	1	96	458	1337	2202	1403	82	5497		

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1855-1976

MARCH

AREA 0018 ALEXANDER BAY SW
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	% FOG	% FOG
20/22	.0	.0	.0	*	.0	.0	.0	*	.0	2	.0	*
17/19	.0	.0	.0	.0	*	.0	*	*	*	6	.0	.1
14/16	.0	.0	*	*	*	*	*	*	*	15	*	.3
11/13	.0	.0	*	.1	.1	.1	.1	.0	.0	30	.0	.5
9/10	.0	.0	*	.2	.1	.2	.1	*	.0	40	.0	.7
7/8	.0	.1	.2	.5	.0	*	.2	.0	.0	114	*	2.0
6	.0	*	.2	.4	.4	.3	.1	.0	.0	80	*	1.4
5	.0	.1	.6	1.1	1.1	.7	.1	.0	.0	202	.1	3.5
4	*	.1	.9	1.9	1.7	.6	*	.0	.0	294	.1	5.1
3	.0	.1	1.2	3.5	2.6	.5	*	.0	.0	440	.2	7.7
2	*	.1	1.6	5.6	3.4	.4	.0	.0	.0	618	.2	10.9
1	.0	.2	2.1	9.4	4.8	.2	*	.0	.0	927	.4	16.2
0	*	.1	2.1	11.1	3.9	.1	.0	.0	.0	963	.4	16.9
-1	.0	.1	1.3	9.4	2.4	*	.0	.0	.0	740	.3	13.0
-2	*	.1	1.3	6.4	.7	*	.0	.0	.0	474	.2	8.3
-3	.0	.1	1.0	3.9	.4	.0	.0	.0	.0	304	*	5.5
-4	.0	.0	.9	1.7	.1	*	.0	.0	.0	148	.1	2.6
-5	.0	*	.6	.7	.1	.0	.0	.0	.0	79	.1	1.4
-6	*	*	.4	.3	*	.0	.0	.0	.0	43	*	.7
-7/-8	*	.1	.3	.1	*	.0	.0	.0	.0	30	*	.5
-9/-10	.0	.0	*	*	.0	.0	.0	.0	.0	3	.0	.1
-11/-13	*	.0	*	*	.0	.0	.0	.0	.0	4	.0	.1
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	.0	2	.0	*
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	8	76	821	3139	1259	204	37	11	4	5559	128	5431
PCT	.1	1.4	14.8	56.5	22.6	3.7	.7	.2	.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.1
1-2	.0	.3	.1	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.2
3-4	.0	.1	*	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2
5-6	.0	*	*	.1	.0	.0	.1	.0	*	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.4	.1	.1	.0	.0	.6	.1	.3	.1	*	.0	.0	.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.1	.1	.2	.1	.0	.0	.0	.4
1-2	.1	.2	*	.0	.0	.0	.3	.1	2.5	1.4	.0	.0	.0	4.0
3-4	.0	.1	.1	.0	.0	.0	.2	*	1.8	4.5	.5	.0	.0	6.9
5-6	.0	.0	*	.0	.0	.0	*	.0	.5	5.2	2.2	.2	.0	8.0
7	.0	.0	*	*	.0	.0	*	.0	.1	4.2	2.9	.3	.0	7.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.1	.3	.0	3.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.5	.2	.0	2.1
12	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.5	.1	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.3	.1	1.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.2	*	.0	.0	.7	.3	5.0	17.0	11.0	1.6	.1	34.9

PERIOD: (OVER-ALL) 1963-1976

MARCH

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW								PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.2	.6	.1	.0	.0	.0	.9		.2	.4	.0	.0	.0	.0	.6		.6	
1-2	.5	6.6	2.6	.0	.0	.0	9.8		.3	3.1	.6	.0	.0	.0	4.0		4.0	
3-4	.1	4.2	8.6	.4	.0	.0	13.3		.1	1.1	.8	.0	.0	.0	1.9		1.9	
5-6	.0	1.2	9.7	1.7	.0	.0	12.6		.0	.3	.6	.0	.0	.0	.9		.9	
7	.0	.2	4.5	2.3	.3	.0	7.3		.0	.0	.3	.0	.0	.0	.3		.3	
8-9	.0	.0	1.5	1.2	.1	.0	3.4		.0	.0	.1	.0	.0	.0	.1		.1	
10-11	.0	.0	.0	.0	.0	.0	1.9		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0	.8		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.3	.1	.0	.3		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.8	12.9	27.5	8.3	.7	.0	50.3		.5	4.9	2.3	.1	.0	.0	8.0			

HGT	W								NW								PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.1	.2	.0	.0	.0	.0	.3		.1	.1	.0	.0	.0	.0	.2		.2	
1-2	.1	1.1	.1	.0	.0	.0	1.3		.1	.4	.1	.0	.0	.0	.5		.5	
3-4	.0	.2	.3	.0	.0	.0	.5		.0	.0	.2	.0	.0	.0	.2		.2	
5-6	.0	.1	.1	.0	.0	.0	.2		.0	.0	.1	.0	.0	.0	.1		.1	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	1.6	.5	.0	.0	.0	2.5		.2	.5	.4	.1	.0	.0	1.1		98.6	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.7	1.6	.1	.0	.0	.0	4.5	
1-2	1.6	14.4	4.8	.0	.0	.0	20.8	
3-4	.1	7.6	14.3	1.0	.0	.0	23.0	
5-6	.0	2.2	15.6	4.0	.2	.0	21.9	
7	.0	.4	8.9	5.2	.5	.0	15.1	
8-9	.0	.0	2.9	3.8	.5	.0	7.1	
10-11	.0	.0	.9	2.7	.4	.0	4.0	
12	.0	.0	.1	1.2	.1	.0	1.4	
13-16	.0	.0	.0	1.1	.4	.1	1.6	
17-19	.0	.0	.0	.3	.3	.0	.6	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	26.2	47.6	19.4	2.3	.1	100.0	3505

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	4.1	5.4	4.4	3.2	2.1	1.5	.7	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1014	5
6-7	.0	.5	3.3	5.8	6.0	4.8	4.4	1.6	1.8	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	1306	8
8-9	.0	.1	1.9	2.7	4.8	3.9	3.4	1.7	3.6	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	1048	9
10-11	.0	.1	.4	1.0	1.9	1.8	1.7	1.2	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	460	9
12-13	.0	.0	.4	.4	.5	.8	.6	.4	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	190	10
>13	.0	.0	.0	.2	.2	.2	.3	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	11
INDET	.7	.5	1.3	1.5	1.5	1.2	1.6	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	419	7
TOTAL	46	236	575	720	818	667	609	267	408	107	31	16	14	0	0	0	0	0	0	4514	8
PCT	1.0	5.2	12.7	16.0	18.1	14.8	13.5	5.9	9.0	2.4	.7	.4	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1856-1976

APRIL

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.2	.7	3.0	.0	.0	.0	.0	4.9	1.6	2.8	10.1	1.7	.9	.0	78.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.0	9.4	.9	3.8	.0	78.4
E	1.6	.9	1.6	.0	.0	.0	.0	3.3	.9	2.7	4.2	.9	.0	.0	88.9
SE	.2	.3	.4	.0	.0	.0	.0	.9	.5	1.0	1.1	.3	1.2	.2	94.8
S	.3	.5	.4	.0	.0	.0	.0	1.1	.7	.9	1.8	.1	2.4	.2	92.7
SW	.5	.7	1.0	.0	.0	.0	.0	2.3	2.8	.9	2.7	.0	.7	.0	90.6
W	1.3	.5	2.0	.0	.0	.0	.0	3.2	2.5	.9	2.3	.3	.9	.0	89.9
NW	1.1	1.0	2.0	.0	.0	.0	.0	4.1	2.2	.3	1.9	.0	.6	.0	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.2	.0	.0	.0	.0	2.2	1.5	2.2	13.4	.7	3.0	.0	76.9
TOT PCT	.5	.5	.8	.0	.0	.0	.0	1.6	1.1	1.1	2.3	.2	1.5	.1	92.0
TOT OBS:	5510														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
06003	.6	.4	.9	.0	.0	.0	.0	1.8	1.4	2.6	2.6	.2	1.1	.1	90.3
06009	.7	.9	.8	.0	.0	.0	.0	2.2	1.7	.3	3.0	.3	1.1	.1	91.2
12015	.4	.4	.6	.0	.0	.0	.0	1.2	.9	.0	2.2	.2	2.4	.2	92.9
18021	.2	.2	1.1	.0	.0	.0	.0	1.6	.6	1.7	1.9	.2	1.2	.1	92.7
TOT PCT	.5	.5	.8	.0	.0	.0	.0	1.7	1.1	1.1	2.4	.3	1.5	.1	91.8
TOT OBS:	5687														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	1.3	.7	.1	*	.0		2.4	9.4		2.8	2.6	2.2	2.9	2.7	1.9	2.1	1.9
NE	.2	.5	.2	*	.0	.0		.9	7.5		.7	1.6	1.0	.3	.9	.6	.8	.0
E	.3	.9	.4	.1	*	.0		1.7	9.2		1.6	1.6	1.9	2.6	2.4	1.6	1.1	.0
SE	.8	8.5	16.2	7.2	.5	.0		33.3	15.9		32.8	28.7	34.1	42.9	35.1	30.1	32.5	42.5
S	1.2	13.0	15.9	4.0	*	*		34.3	13.4		34.0	34.8	35.8	20.2	32.8	35.6	35.3	28.4
SW	1.2	7.1	3.5	.4	*	*		12.2	9.3		12.1	14.4	11.6	15.1	11.0	14.4	12.7	12.2
W	1.0	4.1	1.7	.3	*	.0		7.1	9.1		6.5	7.5	5.9	3.5	7.4	8.3	8.4	6.3
NW	.6	2.9	1.5	.3	*	.0		5.3	9.9		5.5	4.9	5.2	8.7	5.5	5.4	4.9	5.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		4.1	3.9	2.4	3.8	2.2	2.0	2.3	3.8
TOT OBS	712	3281	3433	1057	74	2	8559		12.7		1625	642	1829	78	2078	608	1619	80
TOT PCT	8.3	38.3	40.1	12.3	.9	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	06	18
N	.8	1.3	.2	*	.0			2.4	9.4		2.7	2.2	2.5	2.0
NE	.5	.4	*	.0	.0			.9	7.5		1.0	1.0	.8	.8
E	.8	.7	.2	*	*			1.7	9.2		1.6	1.9	2.2	1.1
SE	3.5	14.3	13.0	2.5	*			33.3	15.9		31.7	34.5	34.0	33.0
S	5.6	17.7	9.9	1.2	*			34.3	13.4		34.2	35.2	33.5	35.0
SW	4.9	5.8	1.4	.1	*			12.2	9.3		12.7	11.7	11.8	12.6
W	2.9	3.3	.8	.1	*			7.1	9.1		6.8	5.8	7.6	8.3
NW	1.9	2.7	.6	.1	*			5.3	9.9		5.3	5.3	5.4	4.9
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.7							2.7	.0		4.0	2.5	2.1	2.4
TOT OBS	2022	3952	2734	340	11	8559			12.7		2267	1907	2686	1699
TOT PCT	23.6	46.2	26.1	4.0	.1			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1856-1976

APRIL

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS	
		1-3	4-10	11-21	22-33	34-47	48+			
00003	4.0	5.8	38.6	38.9	11.6	1.1	.0	12.3	100.0	2267
06009	2.5	5.2	38.2	41.9	11.2	1.0	.1	12.7	100.0	1907
12015	2.1	5.8	38.2	40.2	13.0	.7	*	12.8	100.0	2686
18021	2.4	5.4	38.3	39.7	13.8	.6	.0	12.9	100.0	1699
TOT	235	477	3281	3433	1057	74	2	12.7		8559
PCT	2.7	5.6	38.3	40.1	12.3	.9	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.3	.8	.9		5.8
NE	.2	.1	.2	.4		5.4
E	.7	.2	.5	.4		4.3
SE	16.8	6.2	9.5	4.5		3.4
S	14.7	6.1	9.2	4.3		3.6
SW	3.2	2.0	3.3	1.8		4.3
W	1.6	1.2	2.0	.9		4.4
NW	1.3	.9	1.7	1.6		5.0
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.4	.6		4.2
TOT OBS	1794	782	1254	695	4525	3.8
TOT PCT	39.6	17.3	27.7	15.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.1	*	.1	.5	.5	.1	.1	*	*	*	.8	
*	*	*	*	.3	.1	*	.0	*	*	.4	
*	.0	*	.2	.4	.1	.0	.0	.0	*	1.1	
.1	*	.2	2.2	4.9	2.3	.7	.2	.1	.2	25.9	
.2	*	.4	2.1	4.7	2.3	.9	.1	.1	.2	23.4	
.1	*	.3	.9	1.3	.8	.4	.1	.1	.1	6.3	
*	*	*	.5	.7	.5	.2	.1	*	.1	3.7	
.1	.0	*	.5	1.3	.5	.2	.1	*	*	2.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	*	.2	.3	.2	*	*	*	*	1.1	
34	7	48	322	650	313	110	26	15	34	2966	4525
.8	.2	1.1	7.1	14.4	6.9	2.4	.6	.3	.8	65.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.4	1.6	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	3.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1
= OR >2000	9.5	11.0	11.1	11.2	11.2	11.2	11.2	11.2
= OR >1000	21.3	25.0	25.4	25.4	25.5	25.5	25.5	25.5
= OR >600	26.4	31.8	32.5	32.5	32.5	32.6	32.6	32.6
= OR >300	26.9	32.7	33.4	33.6	33.6	33.6	33.6	33.6
= OR >150	26.9	32.8	33.6	33.7	33.8	33.8	33.8	33.8
= OR > 0	27.0	32.8	33.8	33.9	34.0	34.2	34.5	34.6
TOTAL	1251	1523	1568	1573	1579	1587	1601	1606

TOTAL NUMBER OF OBS: 4640

PCT FREQ NH < 5/8: 65.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
22.7	15.2	11.2	8.9	6.9	5.1	7.6	8.8	13.1	.6	4861

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1856-1976

APRIL

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	*	*	.1	.2	*	*	.1	.0	.2	.9	
	TOT %	.1	*	*	.1	.2	*	*	.1	.0	.2	.9	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	*	.0	*	*	.1	
	NO PCP	*	*	.0	.1	.1	*	*	*	.0	*	.3	
	TOT %	*	*	.0	.1	.1	*	*	*	.0	.1	.3	
1<2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	*	*	.0	.1	.1	*	*	*	.0	*	.4	
	TOT %	*	*	.0	.1	.1	*	*	*	.0	*	.4	
2<5	PCP	*	.0	.0	*	.1	.0	*	*	.0	.0	.2	
	NO PCP	.1	*	.0	.2	.3	.2	.1	*	.0	.1	1.1	
	TOT %	.2	*	.0	.2	.4	.2	.1	.1	.0	.1	1.3	
5<10	PCP	.1	.0	*	.2	.2	.1	.1	.1	.0	.0	.8	
	NO PCP	.7	.3	.4	4.7	5.5	1.4	.8	1.1	.0	.5	15.4	
	TOT %	.8	.3	.4	4.9	5.7	1.5	.9	1.2	.0	.5	16.1	
10+	PCP	*	.0	*	.1	.1	*	.1	.1	.0	*	.5	
	NO PCP	1.5	.5	1.5	30.6	27.4	8.5	4.8	4.0	.0	1.5	80.4	
	TOT %	1.5	.5	1.6	30.8	27.5	8.5	4.9	4.1	.0	1.5	80.9	
TOT OBS													5506
TOT PCT		2.6	.9	2.0	36.1	34.0	10.4	6.0	5.5	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	*	*	.0	*	*	.0	.2	.4	
	4-10	*	*	*	.1	.1	*	*	.1	.0	.3		
	11-21	*	.0	*	*	.1	*	.0	*	.0	.2		
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0	*		
	TOT %	.1	*	*	.1	.2	*	*	.1	.0	.2	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.1	
	4-10	*	*	.0	*	*	*	*	*	.0	.2		
	11-21	.0	.0	.0	*	.1	.0	.0	.0	.0	.1		
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	*		
	TOT %	*	*	.0	.1	.1	*	*	*	.0	*	.3	
1<2	0-3	.0	*	.0	*	*	*	*	.0	.0	*	.1	
	4-10	*	*	.0	*	.1	*	*	*	.0	.2		
	11-21	*	.0	.0	*	*	.0	.0	*	.0	.1		
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	*		
	TOT %	*	*	.0	.1	.2	.1	.1	*	.0	*	.5	
2<5	0-3	.0	.0	.0	*	.1	.1	*	*	.0	.1	.3	
	4-10	.1	*	*	.1	.2	.1	*	*	.0	.8		
	11-21	*	*	.0	.1	.2	*	*	*	.0	.4		
	22+	.0	.0	.0	*	*	*	.0	.0	.0	.1		
	TOT %	.2	*	*	.3	.4	.3	.2	.1	.0	.1	1.6	
5<10	0-3	.1	*	*	.1	.1	.3	.1	.1	.0	.5	1.4	
	4-10	.4	.2	.2	1.1	2.0	.8	.5	.5	.0	5.7		
	11-21	.3	.1	.1	2.1	2.8	.4	.3	.4	.0	6.5		
	22+	.0	.0	*	1.2	.8	.1	.0	.1	.0	2.1		
	TOT %	.7	.3	.4	4.5	5.8	1.6	.8	1.1	.0	.5	15.7	
10+	0-3	.2	.1	.3	.7	.7	.8	.6	.4	.0	1.9	5.6	
	4-10	.8	.2	.8	7.5	10.7	5.7	3.0	2.3	.0	31.1		
	11-21	.4	.1	.3	15.1	13.2	2.1	1.1	1.1	.0	33.5		
	22+	*	*	.1	6.7	3.6	.1	.2	.1	.0	10.9		
	TOT %	1.4	.5	1.5	30.1	28.2	8.7	4.9	3.9	.0	1.9	81.1	
TOT OBS													6445
TOT PCT		2.5	.9	1.9	35.1	34.9	10.7	6.0	5.2	.0	2.8	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1856-1976AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.1	.0	.9	6.9	15.0	7.9	2.3	.3	.3	1.1	35.7	64.3	1039
06009	.9	.2	1.1	9.4	17.2	7.8	3.2	.8	.2	.9	41.6	58.4	1315
12015	.6	.3	.9	5.5	11.6	6.3	1.8	.4	.4	.5	28.4	71.6	1372
18021	.6	.1	1.2	6.1	12.3	5.6	2.1	.7	.3	.6	29.5	70.5	1035
TOT PCT	37 .8	8 .2	48 1.0	334 7.0	668 14.0	328 6.9	113 2.4	26 .5	15 .3	36 .8	1613 33.9	3148 66.1	4761 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	.2	.4	1.7	17.9	78.8	1672
06009	1.2	.4	.5	1.8	13.9	82.1	1648
12015	.8	.4	.6	1.5	15.9	80.8	1926
18021	.8	.4	.2	1.4	15.3	81.9	1388
TOT PCT	64 1.0	23 .3	30 .5	105 1.6	1048 15.8	5364 80.9	6634 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.1	2.0	9.7	27.3	63.0	1008
06009	.9	2.6	12.7	29.7	57.6	1291
12015	.6	1.9	8.3	21.3	70.4	1335
18021	.6	2.2	8.6	21.6	69.8	1006
TOT PCT	37 .8	100 2.2	460 9.9	1160 25.0	3020 65.1	4640 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	*	.0	.0	.0	.0	1	*
80/84	*	.0	*	*	*	.0	.0	.0	6	.1
75/79	.0	.0	.0	.1	.2	.2	.0	*	25	.5
70/74	.0	*	*	.2	1.2	2.3	1.3	.5	273	5.5
65/69	.0	.0	.1	.9	4.8	13.0	21.2	10.5	2484	50.5
60/64	.0	.0	*	.9	5.3	8.6	14.6	11.0	1984	40.3
55/59	.0	.0	.0	.0	.1	.5	.8	1.5	146	3.0
TOTAL	1	1	9	105	568	1213	1864	1158	4919	100.0
PCT	*	*	.2	2.1	11.5	24.7	37.9	23.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	*	.0	.0	.0	.0	.0	.0
80/84	.0	.0	*	*	*	*	.0	.0	.0	*
75/79	*	*	.0	.2	.2	.1	.1	*	.0	.0
70/74	.1	.1	.2	2.0	1.8	.4	.5	.3	.0	.2
65/69	1.1	.3	.9	19.1	16.1	5.4	3.3	3.2	.0	1.0
60/64	1.1	.5	.7	14.2	14.7	4.3	2.1	1.8	.0	1.0
55/59	.2	.1	.1	.7	1.3	.2	.1	.2	.0	*
TOTAL	2.5	1.0	1.9	36.3	34.2	10.4	6.0	5.5	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	69	68	64	59	56	54	63.7	2316
06009	83	70	68	64	59	58	50	64.1	1942
12015	87	76	72	67	61	58	52	66.7	2692
18021	75	71	68	65	60	57	52	64.5	1721
TOT	87	73	70	65	60	57	50	64.9	8671

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.1	1.2	8.5	19.9	40.0	30.3	83	1205		
06009	.0	2.3	9.7	22.9	37.6	27.5	82	1326		
12015	.0	3.8	17.2	29.9	35.1	14.1	78	1433		
18021	.0	1.4	9.4	24.7	38.4	26.0	82	1104		
TOT	1	115	582	1244	1907	1219	81	5068		

APRIL

PERIOD: (PRIMARY) 1921-1976
(OVER-ALL) 1856-1976AREA 0018 ALEXANDER BAY SW
30.4S 14.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WU FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	6	.0	.1
11/13	.0	.0	.0	.1	.1	.0	.1	.2	.0	.0	29	.0	.5
9/10	.0	.0	.0	.1	.2	.1	.2	.0	.0	.0	31	.0	.6
7/8	.0	.0	.0	.2	.4	.7	.2	.1	.0	.0	83	.1	1.6
6	.0	.0	.0	.3	.4	.4	.3	.0	.0	.0	69	.0	1.3
5	.0	.0	.1	.7	1.1	.8	.2	.0	.0	.0	142	.0	2.7
4	.0	.0	.3	1.1	1.3	.8	.1	.0	.0	.0	183	.2	3.4
3	.0	.0	.2	1.8	3.0	1.2	.1	.0	.0	.0	327	.1	6.3
2	.0	.0	.8	3.4	5.1	1.5	.1	.0	.0	.0	555	.3	10.5
1	.0	.0	.5	5.3	7.2	1.2	.0	.0	.0	.0	728	.3	13.9
0	.0	.1	.9	6.4	9.1	.7	.0	.0	.0	.0	884	.4	16.8
-1	.0	.0	.4	5.6	8.2	.4	.0	.0	.0	.0	761	.4	14.4
-2	.0	.1	.8	4.5	5.0	.2	.0	.0	.0	.0	539	.2	10.3
-3	.0	.0	.7	3.7	3.1	.1	.0	.0	.0	.0	390	.2	7.5
-4	.0	.0	.5	2.0	1.0	.1	.0	.0	.0	.0	182	.1	3.5
-5	.0	.1	.3	1.2	.5	.0	.0	.0	.0	.0	105	.0	2.0
-6	.0	.0	.2	.6	.2	.0	.0	.0	.0	.0	53	.0	1.0
-7/-8	.0	.1	.2	.4	.1	.0	.0	.0	.0	.0	37	.1	.7
-9/-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	10	.0	.2
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.1
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	3	21	313	1918	2367	418	64	13	.1	1	5123	130	4993
PCT	.1	.4	6.1	37.4	46.2	8.2	1.2	.3	.1	.0	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.1
1-2	.1	.7	.1	.0	.0	.0	.9	.1	.3	.1	.0	.0	.0	.4
3-4	.0	.3	.3	.0	.0	.0	.6	.0	.2	.1	.0	.0	.0	.3
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.1	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.1	1.0	.0	.0	.0	2.4	.2	.5	.4	.0	.0	.0	1.0

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3	.5	.4	.0	.0	.0	.0	.9
1-2	.2	.8	.1	.0	.0	.0	1.1	.2	4.6	1.2	.0	.0	.0	6.0
3-4	.0	.2	.1	.0	.0	.0	.3	.0	2.9	5.7	.4	.0	.0	9.0
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.8	6.5	1.4	.0	.0	8.8
7	.0	.0	.1	.0	.0	.0	.1	.0	.3	4.0	2.5	.1	.0	6.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	2.0	.1	.0	3.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	1.1	.1	.0	1.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.1	.4	.1	.0	.0	2.0	.7	9.1	18.8	8.9	.7	.0	38.3

PERIOD: (OVER-ALL) 1963-1976

APRIL

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.6	.0	.0	.0	.0		.9	.4	.8	.0	.0	.0	.0		1.2
1-2	.5	6.6	1.6	.0	.0	.0		8.6	.5	3.6	.3	.0	.0	.0		4.4
3-4	*	3.1	5.7	.4	.0	.0		9.2	.0	.9	.8	.0	.0	.0		1.7
5-6	.0	.7	4.9	.7	.1	.0		6.3	.0	.3	.6	.1	.0	.0		.9
7	.0	.1	3.2	1.6	.0	.0		4.9	.0	.0	.3	.1	.0	.0		.4
8-9	.0	.0	.7	1.1	*	.0		1.8	.0	.0	.1	*	.0	.0		.1
10-11	.0	.0	.4	.7	.1	.0		1.2	.0	.0	*	.0	.0	.0		*
12	.0	.0	.1	.2	*	.0		.3	.0	*	.0	.0	.0	.0		*
13-16	.0	.0	.0	.2	*	*		.2	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	*	*	*	.0		.1	.0	*	.0	.0	.0	.0		*
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	11.0	16.7	4.9	.2	*		33.6	.9	5.6	2.1	.3	.0	.0		8.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.3	*	.0	.0	.0		.6	.2	.3	*	.0	.0	.0		.5	
1-2	.2	2.3	.1	.0	.0	.0		2.5	.2	2.1	.2	.0	.0	.0		2.6	
3-4	.1	.6	.5	*	.0	.0		1.2	*	.7	.8	.0	.0	.0		1.5	
5-6	.0	*	.7	*	.0	.0		.8	.0	.2	.3	.1	.0	.0		.6	
7	.0	.0	.2	.1	.0	.0		.3	.0	.0	.1	.1	.0	.0		.2	
8-9	.0	*	*	.0	.0	.0		.1	.0	.0	.1	*	.0	.0		.1	
10-11	.0	*	.1	.0	.0	.0		.1	.0	.0	.0	*	.0	.0		*	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	*	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	3.4	1.6	.2	.0	.0		5.6	.4	3.3	1.6	.3	.0	.0		5.6	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.6	2.6	.1	.0	.0	.0	8.3	
1-2	2.3	20.8	3.6	.0	.0	.0	26.8	
3-4	.2	8.8	13.8	.8	.0	.0	23.5	
5-6	.0	2.0	13.5	2.3	.1	.0	17.8	
7	.0	.4	7.9	4.4	.1	.0	12.7	
8-9	.0	*	1.8	3.2	.2	.0	5.2	
10-11	.0	.1	.8	1.9	.2	.0	3.0	
12	.0	.1	.2	.7	*	.0	1.0	
13-16	.0	.0	*	.9	.2	*	1.2	
17-19	.0	.1	.1	.2	.1	.0	.5	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.1	34.8	41.8	14.4	1.0	*	100.0	3140

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	4.1	6.7	4.9	3.3	1.6	.6	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	933
6-7	.0	1.0	3.2	5.8	6.2	4.1	4.1	1.4	1.7	.6	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	1142
8-9	.0	.2	1.6	2.8	4.2	3.6	3.6	1.7	2.1	.7	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	843
10-11	.0	.4	.6	1.3	1.7	1.4	1.5	1.1	1.5	.7	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	426
12-13	.0	.0	.8	.9	.6	.9	.8	.3	.6	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	218
>13	.0	.0	.0	.4	.3	.5	.4	.2	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	98
INDET	1.2	1.0	1.9	1.6	1.4	1.2	.5	.2	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	382
TOTAL	87	274	597	717	714	535	466	212	278	111	33	13	5	0	0	0	0	0	0	0	4042
PCT	2.2	6.8	14.8	17.7	17.7	13.2	11.5	5.2	6.9	2.7	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

MAY

AREA 0018 ALEXANDER BAY SW
30.45 14.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DKZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST BLWG SNOW	
N	2.3	1.3	1.3	.0	.0	.0	.0	4.8	1.5	1.3	4.9	1.3	1.2	.0	.0	85.4
NE	.0	.0	1.1	.0	.0	.0	.0	1.1	1.1	.0	11.6	1.1	.0	.0	.0	85.2
E	1.1	.0	1.3	.0	.0	.0	.0	2.4	.6	.3	4.1	.0	.0	.0	.0	92.5
SE	.2	.4	.4	.0	.0	.0	.0	.9	.6	.8	1.5	.1	.7	.3	.0	95.3
S	.6	.6	.8	.0	.0	.0	.0	1.8	1.2	.5	1.8	.1	.3	.0	.0	94.4
SW	1.1	1.8	1.3	.0	.0	.0	.0	4.2	1.7	.7	2.3	.4	.4	.0	.0	90.7
W	.9	1.2	1.7	.0	.0	.0	.2	4.0	3.3	.3	1.6	.2	.0	.0	.0	90.6
NW	1.1	.9	2.6	.0	.0	.0	.0	4.3	2.5	.7	5.1	.7	.5	.0	.0	86.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	10.5	.0	1.5	.0	.0	87.5
TOT PCT	.6	.7	.9	.0	.0	.0	*	2.2	1.3	.6	2.7	.2	.5	.1	.0	92.5
TOT OBS:	5565															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DKZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST BLWG SNOW	
0000	.4	.7	1.3	.0	.0	.0	.0	2.3	1.3	1.9	2.8	.3	.4	.1	.0	91.0
0600	.7	.7	1.2	.0	.0	.0	.0	2.4	1.6	.4	3.6	.3	.5	.1	.0	91.2
1200	.7	1.0	.9	.0	.0	.0	.1	2.5	1.4	.1	2.7	.2	.7	.1	.0	92.4
1800	.6	.3	.4	.0	.0	.0	.0	1.3	.7	.5	2.3	.2	.3	.2	.0	94.7
TOT PCT	.6	.7	.9	.0	.0	.0	*	2.2	1.2	.7	2.9	.2	.5	.1	.0	92.3
TOT OBS:	5641															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OVS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	2.0	1.3	.2	*	*		4.4	9.8		4.0	4.1	4.2	6.7	5.4	4.1	3.7	6.7
NE	.6	1.2	.3	*	.0	.0		2.0	6.7		1.7	1.8	2.0	4.8	2.4	2.6	1.4	1.7
E	.4	1.7	.8	.1	*	.0		3.1	9.3		3.1	2.5	3.1	4.8	3.9	3.3	2.4	1.7
SE	1.3	9.7	15.4	4.5	.5	*		31.4	14.3		30.7	28.3	32.8	31.7	33.2	29.3	30.4	27.2
S	1.4	11.5	10.9	1.8	.2	.0		25.7	11.8		24.7	25.6	26.4	28.4	23.4	26.8	28.3	28.1
SW	1.0	6.3	3.7	.7	.1	.0		11.7	10.4		11.9	14.1	11.5	10.4	10.6	13.3	12.2	8.1
W	.7	4.5	2.5	.6	.2	*		6.4	10.8		8.8	9.5	7.6	7.6	8.8	7.7	8.5	6.5
NW	.9	4.6	2.8	.6	.1	*		9.1	10.9		9.9	8.2	9.0	4.5	9.2	9.4	9.0	9.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0							4.0	.0		5.4	5.8	3.4	1.1	3.1	3.5	4.1	10.1
TOT OBS	1032	3831	3461	785	99	6		9214	11.5		1668	705	1889	89	2358	663	1753	89
TOT PCT	11.2	41.6	37.6	8.5	1.1	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OVS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.6	2.2	.6	*	*		4.4	9.8	4.0	4.4	5.1	3.9
NE	1.2	.7	.1	.0	.0		2.0	6.7	1.7	2.1	2.5	1.5
E	1.2	1.5	.4	*	.0		3.1	9.3	2.9	3.2	3.7	2.3
SE	4.7	14.7	10.3	1.6	.1		31.4	14.3	30.0	32.7	32.3	30.3
S	6.1	13.8	5.3	.6	*		25.7	11.8	24.9	26.5	24.2	28.3
SW	4.0	5.6	1.9	.3	*		11.7	10.4	12.6	11.4	11.2	12.0
W	3.0	3.9	1.1	.3	.1		8.4	10.8	9.0	7.6	8.6	8.4
NW	2.9	4.6	1.4	.2	*		9.1	10.9	9.4	8.8	9.2	9.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.0						4.0	.0	5.5	3.3	3.1	4.4
TOT OBS	2645	4332	1933	278	26		9214	11.5	2373	1978	3021	1842
TOT PCT	28.7	47.0	21.0	3.0	.3		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

MAY

AREA 0018 ALEXANDER BAY SW
30.4S 14.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)											
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS	
				11-21	22-33	34-47					
00003	5.5	6.4	40.8	38.0	7.9	1.3	.1	11.4	100.0	2373	
06009	3.3	6.8	42.8	38.4	8.0	.8	.0	11.4	100.0	1978	
12015	3.1	8.4	40.1	38.2	9.0	1.0	.1	11.6	100.0	3021	
18021	4.4	6.5	43.8	35.0	9.0	1.2	.1	11.5	100.0	1842	
TOT	372	660	3831	3461	785	99	.0	11.5		9214	
PCT	4.0	7.2	41.6	37.6	8.5	1.1	.1	100.0			

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION					MEAN TOTAL CLOUD COVER
	0-2	3-4	5-7	8 & Obscd	TOTAL OBS	
N	1.1	.5	1.6	1.1		4.9
NE	.7	.3	.5	.3		4.0
E	1.5	.4	.5	.4		3.1
SE	17.8	6.3	8.0	2.8		3.0
S	11.9	5.5	7.3	2.0		3.3
SW	3.7	2.3	2.9	1.4		3.9
W	2.7	1.9	2.4	1.1		4.0
NW	2.1	1.3	2.4	1.6		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.8	.6	.7	.6		3.3
TOT OBS	2015	892	1224	521	4652	3.5
TOT PCT	43.3	19.2	26.3	11.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION														
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS			
149	299	599	999	1999	3499	4999	6499	7999						
.1	.0	.1	.4	.9	.4	.1	.1	.0	.1	2.1				
*	*	*	.1	.2	.1	*	.0	*	.0	1.1				
*	*	*	.1	.3	.1	.0	*	.0	.0	2.2				
.1	*	.2	1.6	3.3	1.8	.8	.5	.1	*	26.4				
.1	.1	.3	1.4	3.3	1.3	.7	.2	*	.2	19.4				
*	*	.1	.8	1.4	.5	.3	.1	*	*	7.0				
.0	*	.1	.8	1.0	.4	.2	*	.0	.1	5.4				
.1	*	.2	.7	1.2	.6	.2	*	.0	.0	4.4				
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
.1	.0	*	.3	.3	.2	.1	.0	*	*	2.7				
28	10	53	291	549	252	108	40	7	21	3293	4652			
.6	.2	1.1	6.3	11.8	5.4	2.3	.9	.2	.5	70.8	100.0			

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	# OR >10	# OR >5	# OR >2	# OR >1	# OR >1/2	# OR >1/4	# OR >50YD	# OR >0
# OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
# OR >5000	1.2	1.4	1.4	1.4	1.4	1.4	1.5	1.5
# OR >3500	3.2	3.6	3.7	3.7	3.7	3.7	3.7	3.7
# OR >2000	8.1	9.0	9.1	9.1	9.1	9.1	9.2	9.2
# OR >1000	18.2	20.6	20.9	20.9	20.9	21.0	21.0	21.0
# OR >600	23.4	26.7	27.1	27.1	27.1	27.2	27.2	27.2
# OR >300	24.0	27.7	28.2	28.2	28.3	28.3	28.4	28.4
# OR >150	24.1	27.9	28.4	28.4	28.5	28.5	28.6	28.6
# OR >0	24.2	27.9	28.5	28.6	28.8	28.9	29.1	29.2
TOTAL	1175	1357	1388	1392	1399	1406	1417	1420

TOTAL NUMBER OF OBS: 4863

PCT FREQ NH < 5/8: 70.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	Obscd	TOTAL OBS
23.9	15.6	13.2	10.0	7.5	5.8	6.6	7.6	9.3	.4	5099

AD-A032 604

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO), WEST AF--ETC(U)
NOV 76

F/6 4/2

UNCLASSIFIED

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NL

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PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

MAY

AREA 0018 ALEXANDER BAY SW
30.45 14.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.1	.2	.2	.1	*	.1	.0	.2	1.0		
	TOT %	.1	.1	.1	.2	.2	.1	*	.1	.0	.2	1.0		
1/2<1	PCP	.0	.0	.0	.0	.0	*	.0	*	.0	.0	*		
	NO PCP	*	*	.0	.1	.1	.0	.0	.1	.0	.1	.3		
	TOT %	*	*	.0	.1	.1	*	.0	.1	.0	.1	.3		
1<2	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*		
	NO PCP	.1	.0	.0	.2	*	*	*	*	.0	.1	.4		
	TOT %	.1	.0	.0	.2	*	*	*	*	.0	.1	.4		
2<5	PCP	*	*	*	.1	*	.1	*	.1	.0	.0	.4		
	NO PCP	.1	*	*	.2	.1	.1	.1	.1	.0	*	.8		
	TOT %	.1	*	*	.2	.2	.1	.1	.2	.0	*	1.1		
5<10	PCP	.1	.0	.0	.1	.2	.2	.2	.2	.0	.0	1.0		
	NO PCP	.7	.3	.4	3.8	2.5	1.2	.8	1.5	.0	.6	11.7		
	TOT %	.7	.3	.4	4.0	2.8	1.4	.9	1.6	.0	.6	12.6		
10+	PCP	.1	.0	.1	.1	.2	.2	.1	.1	.0	.0	.8		
	NO PCP	3.1	1.3	2.2	29.8	23.2	8.8	6.5	6.1	.0	2.7	83.7		
	TOT %	3.2	1.3	2.3	29.9	23.4	8.9	6.7	6.2	.0	2.7	84.5		
TOT OBS														5559
TOT PCT														4.2 1.7 2.8 34.5 26.6 10.6 7.7 8.2 .0 3.6 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	*	*	*	*	*	.1	*	*	.0	.1	.4		
	4-10	*	.0	*	.1	.2	*	*	.1	.0		.5		
	11-21	*	*	*	.1	.0	.0	.0	*	.0		.1		
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0		*		
	TOT %	.1	.1	.1	.2	.2	.1	*	.1	.0	.1	1.0		
1/2<1	0-3	*	.0	.0	*	.0	.0	*	*	.0	*	.1		
	4-10	*	*	.0	*	*	.0	.0	.1	.0		.1		
	11-21	.0	.0	.0	*	*	.0	.0	*	.0		*		
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0		*		
	TOT %	*	*	.0	.1	.1	*	.0	.1	.0	*	.3		
1<2	0-3	*	*	.0	.0	*	.0	.0	.0	.0	*	.1		
	4-10	.1	.0	.0	*	*	*	*	*	.0		.1		
	11-21	.0	.0	.0	*	*	*	.0	*	.0		.1		
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1		
	TOT %	.1	*	.0	.2	.1	*	*	.1	.0	*	.4		
2<5	0-3	*	*	.0	.0	*	.0	.0	.0	.0	*	.1		
	4-10	*	*	*	.1	.1	.1	*	.1	.0		.5		
	11-21	.1	*	.0	.1	.1	*	.1	.1	.0		.4		
	22+	.0	.0	.0	*	*	*	.0	*	.0		.1		
	TOT %	.1	*	*	.2	.2	.2	.1	.2	.0	*	1.1		
5<10	0-3	.1	.1	*	.2	.1	.2	.1	.1	.0	.5	1.5		
	4-10	.3	.1	.2	1.0	1.0	.6	.6	.8	.0		4.6		
	11-21	.2	*	.2	1.9	1.1	.4	.2	.5	.0		4.6		
	22+	*	.0	*	.5	.4	.1	.1	.1	.0		1.3		
	TOT %	.7	.2	.4	3.7	2.6	1.3	.9	1.5	.0	.5	11.9		
10+	0-3	.6	.3	.3	.9	1.2	.6	.5	.5	.0	2.9	7.8		
	4-10	1.6	.9	1.4	8.9	11.0	5.6	3.9	3.2	.0		36.5		
	11-21	1.0	.2	.6	15.0	9.9	2.6	1.9	2.1	.0		33.2		
	22+	.1	*	.1	5.0	1.5	.3	.4	.3	.0		7.8		
	TOT %	3.2	1.4	2.5	29.8	23.6	9.1	6.6	6.1	.0	2.9	85.2		
TOT OBS														6391
TOT PCT														4.2 1.7 3.0 34.1 26.7 10.7 7.7 8.2 .0 3.7 100.0

MAY

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976AREA 0018 ALEXANDER BAY SW
30.45 14.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00603	.4	.1	1.0	6.2	11.6	4.8	1.9	.6	.2	.4	27.3	72.7	1114
06609	.9	.4	1.7	8.4	14.9	6.4	2.9	.9	.1	.6	37.2	62.8	1327
12615	.4	.2	1.0	5.1	10.6	5.3	2.4	.8	.1	.3	26.3	73.7	1439
18621	.6	.1	.5	4.4	8.9	4.4	1.4	1.0	.4	.3	22.0	78.0	1126
TOT	30	10	55	303	579	265	111	42	8	21	1424	3582	5006
PCT	.6	.2	1.1	6.1	11.6	5.3	2.2	.8	.2	.4	28.4	71.6	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.7	.3	.4	1.1	13.2	84.2	1637
06609	1.7	.4	.5	1.8	11.0	84.5	1631
12615	.9	.3	.5	.9	11.3	86.2	1936
18621	1.2	.3	.2	.7	11.7	86.0	1469
TOT	75	21	27	75	786	4689	6673
PCT	1.1	.3	.4	1.1	11.8	85.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00603	.5	1.8	8.9	19.7	71.3	1084
06609	1.0	3.6	13.4	25.7	60.9	1295
12615	.4	2.1	7.6	19.8	72.6	1399
18621	.6	1.8	6.5	16.6	76.9	1085
TOT	31	114	448	1004	3411	4863
PCT	.6	2.3	9.2	20.6	70.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	*	.0	.0	.0	1	*
75/79	.0	*	.0	*	*	*	*	.0	7	1.1
70/74	*	.0	.0	.5	2.7	7.3	8.5	.1	77	1.5
65/69	*	.0	*	.5	2.7	7.3	8.5	2.7	1081	21.7
60/64	.0	*	.1	1.5	6.8	16.3	25.0	16.9	3316	66.6
55/59	.0	.0	.0	.2	1.2	2.0	2.8	3.5	481	9.7
50/54	.0	.0	.0	.0	.0	*	.2	.1	14	.3
TOTAL	2	3	8	109	550	1914	1832	1159	4977	100.0
PCT	*	.1	.2	2.2	11.1	26.4	36.8	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	*	.0	*	*	*	*	.0	.0	*
.1	.1	.1	.5	.3	.2	.2	.1	.0	*
1.0	.4	.6	7.2	5.1	2.5	2.5	1.7	.0	.7
2.7	1.0	1.8	24.2	18.3	6.5	4.5	5.2	.0	2.4
.5	.2	.3	2.6	2.7	1.3	.6	.8	.0	.6
.0	.0	*	*	.1	.1	*	*	.0	*
4.3	1.7	2.9	34.6	26.6	10.6	7.8	7.8	.0	3.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	73	68	66	62	57	55	50	61.8	2408
06609	77	68	66	62	57	55	50	62.1	2013
12615	80	72	69	64	59	56	52	64.4	2999
18621	81	68	66	63	58	55	52	62.5	1882
TOT	81	70	68	63	58	55	50	62.8	9302

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	2.0	8.4	24.8	36.0	28.8	83	1292
06609	.0	2.2	10.2	23.6	35.9	28.1	82	1316
12615	.1	3.2	14.4	32.9	35.8	13.6	78	1482
18621	.1	1.8	10.1	22.3	34.5	26.2	83	1193
TOT	2	124	571	1370	1916	1240	81	5223

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1855-1976

MAY
TABLE 17

AREA 0016 ALEXANDER BAY SW
30.45 14.6E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
14/16	.0	.0	.0	*	*	*	.0	*	7	*	.1
11/13	.0	.0	.0	*	*	.1	*	*	9	.0	.2
9/10	.0	.0	.0	.1	.1	.2	.1	.0	26	*	.5
7/8	.0	.0	*	.2	.2	.2	*	.0	39	*	.7
6	.0	.0	.0	.2	.2	.3	*	.0	41	.1	.7
5	.0	.0	*	.4	.9	.4	.1	.0	92	.1	1.7
4	.0	.0	.1	1.0	1.5	.2	.0	.0	151	.1	2.8
3	.0	*	.4	1.7	1.9	.3	.0	.0	231	.1	4.3
2	.0	*	1.0	3.3	3.0	.2	.0	.0	396	.2	7.3
1	.0	*	1.5	7.1	3.7	.1	.0	.0	653	.2	12.1
0	.0	.2	2.5	11.3	3.9	*	.0	*	950	.3	17.7
-1	*	.2	2.6	11.4	2.5	*	.0	.0	887	.5	16.3
-2	*	.3	2.2	9.1	1.3	.1	*	.0	690	.5	12.6
-3	.0	.2	2.0	6.4	.6	.0	.0	.0	484	.4	8.8
-4	*	.2	2.2	2.7	.1	.0	*	.0	283	.2	5.2
-5	.1	.1	1.1	1.4	.2	.0	.0	.0	155	.1	2.9
-6	.0	.1	.8	.7	*	*	.0	.0	86	.1	1.6
-7/-8	*	.2	.7	.5	*	.0	.0	.0	71	.1	1.2
-9/-10	.0	.1	.2	*	.0	.0	.0	.0	15	.0	.3
-11/-13	.0	.0	.1	.1	*	.0	.0	.0	10	*	.2
-14/-16	*	.0	.1	*	.0	.0	.0	.0	6	.0	.1
-20/-22	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	11		923		1074		17		5285	147	5138
PCT	.2	1.6	17.5	57.8	20.3	2.2	.3	.1	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.3	*	.0	.0	.0	.5	.2	.1	*	.0	.0	.0	.3
1-2	.3	.9	.2	.0	.0	.0	1.5	.1	1.0	.1	.0	.0	.0	1.3
3-4	.0	.6	.7	.0	.0	.0	1.2	.0	.2	.1	.0	.0	.0	.2
5-6	*	*	.5	*	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
7	.0	*	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.8	1.7	*	.0	.0	4.2	.3	1.3	.3	.0	.0	.0	1.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.2	.0	.0	.0	.0	.3	.6	.6	.0	.0	.0	.0	1.2
1-2	.2	1.1	.3	.0	.0	.0	1.6	.6	4.9	1.7	.0	.0	.0	7.2
3-4	.0	.3	.3	*	.0	.0	.7	.1	3.1	6.1	.4	.0	.0	9.6
5-6	.0	.1	.1	.0	.0	.0	.2	.1	.6	6.1	.8	*	.0	7.8
7	.0	.0	.1	.1	.0	.0	.2	.0	.1	2.6	1.8	.0	.0	4.5
8-9	.0	.0	*	.1	.0	.0	.1	.0	.0	.7	1.3	.2	.0	2.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.1	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.4
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.2	.4	.1	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	.9	.2	.0	.0	3.0	1.3	9.4	17.6	5.7	.5	.0	34.5

PERIOD: (OVER-ALL) 1963-1976

MAY

AREA 0018 ALEXANDER BAY SW
30.45 14.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	.8	*	.0	.0	.0		1.5	.3	.4	.0	.0	.0	.0		.7
1-2	.6	7.3	1.9	.0	.0	.0		9.8	.3	3.2	.4	.0	.0	.0		3.8
3-4	.0	3.5	4.3	.2	.0	.0		7.9	.0	1.7	1.0	.0	.0	.0		2.8
5-6	.0	.6	3.8	.4	*	.0		4.8	.0	.1	1.1	.1	.0	.0		1.3
7	.0	.2	1.7	.6	.1	.0		2.6	.0	*	.3	*	*	.0		.4
8-9	.0	.1	.3	.2	.0	.0		.6	.0	*	*	.1	.0	.0		.1
10-11	.0	.0	.0	.2	*	.0		.5	.0	.0	*	*	.0	.0		*
12	.0	.0	.0	.2	*	.0		.2	.0	.0	.0	*	.0	.0		*
13-16	.0	.0	*	.1	.0	.0		.1	.0	.0	.0	*	.0	.0		*
17-19	.0	.0	.0	*	*	.0		*	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.2	12.5	12.3	1.9	.2	.0		29.1	.6	5.5	2.9	.2	*	.0		9.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.4	*	.0	.0	.0		.7	.1	.5	*	.0	.0	.0		.6	
1-2	.2	2.5	.4	.0	.0	.0		3.2	.2	2.2	.3	.0	.0	.0		2.7	
3-4	.0	1.2	1.0	.0	.0	.0		2.1	*	1.1	1.4	*	.0	.0		2.5	
5-6	.0	.1	.4	.1	.0	.0		.6	.0	.2	.5	.1	.0	.0		.7	
7	.0	.1	.2	.1	.0	.0		.4	.0	*	.3	*	.0	.0		.3	
8-9	.0	.1	.1	.1	.0	.0		.2	.0	*	.1	*	.0	.0		.1	
10-11	*	.0	.0	.1	.0	.0		.1	*	.0	*	.1	.0	.0		.1	
12	.0	.0	.0	*	.0	.0		*	.0	.0	.0	*	.0	.0		*	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	4.4	2.1	.4	.0	.0		7.3	.4	3.9	2.5	.2	.1	.0		7.1	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	3.4	.1	.0	.0	.0	12.0	
1-2	3.2	23.0	5.1	.0	.0	.0	31.4	
3-4	.1	11.2	14.3	.6	.0	.0	26.3	
5-6	.1	1.6	12.2	1.5	*	.0	15.4	
7	.0	.5	5.2	2.6	.1	.0	8.3	
8-9	.0	.1	1.2	1.6	.3	.0	3.1	
10-11	.1	.0	.5	1.2	.1	.0	1.9	
12	.0	.0	.1	.4	.1	.0	.6	
13-16	.0	.0	.2	.5	.1	.0	.8	
17-19	.0	.0	.0	.1	.1	.0	.1	
20-22	.0	.0	.0	*	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.0	39.9	38.9	8.4	.8	.0	100.0	3439

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.2	4.4	6.5	4.8	2.8	1.5	.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	976	4
6-7	*	.7	4.9	5.6	4.9	4.1	3.0	1.2	.9	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1117	7
8-9	.0	.3	2.3	4.1	5.2	3.8	3.1	1.7	2.1	.6	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	1019	8
10-11	.0	.4	.4	1.6	2.3	1.8	1.8	.9	1.3	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	485	9
12-13	.0	.0	.7	.6	.9	.8	1.1	.5	.7	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	241	9
>13	.0	.0	.0	.4	.5	.3	.3	.2	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	93	10
INDET	1.2	1.1	1.3	1.9	1.5	.9	.7	.2	.3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	394	5
TOTAL	104	296	698	820	779	569	463	216	252	76	37	9	6	0	0	0	0	0	0	0	4325	7
PCT	2.4	6.8	16.1	19.0	18.0	13.2	10.7	5.0	5.8	1.8	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1855-1975

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AREA 0018 ALEXANDER BAY SW
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	5.1	2.6	2.7	.0	.0	.0	.0	10.4	1.2	.9	4.5	.0	1.2	.2	.2	82.3
NE	1.7	.8	1.3	.0	.0	.0	.0	3.7	2.6	1.3	2.4	.0	.8	.3	.3	89.0
E	.4	.5	.0	.0	.0	.0	.0	.9	.3	.4	2.3	.0	.5	.4	.4	95.2
SE	.2	.2	.5	.0	.0	.0	.0	.9	.5	.5	.6	.1	.3	.2	.2	96.9
S	.6	.5	.9	.0	.0	.0	.0	1.8	1.5	.7	.9	.1	.3	.0	.0	94.8
SW	2.6	1.6	.6	.0	.0	.0	.0	4.8	3.6	.2	.7	*	.6	*	.6	90.0
W	2.0	2.3	2.8	.0	.0	.0	.0	7.2	3.3	.9	.3	.0	.3	.1	.1	87.9
NW	1.4	2.5	1.8	.0	.0	.0	.0	5.8	1.8	.6	2.8	.5	.7	.0	.0	87.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.6	.6	.0	.0	.0	.0	1.1	.0	2.9	8.0	1.7	.6	.0	.0	85.7
TOT PCT	1.2	1.1	1.1	.0	.0	.0	.0	3.3	1.6	.7	1.5	.1	.5	.1	.1	92.3
TOT OBS:	5433															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00003	1.4	1.8	.9	.0	.0	.0	.0	4.1	1.9	1.9	1.4	.1	.5	.1	.1	90.2
06009	.9	.9	1.4	.0	.0	.0	.0	3.1	1.9	.3	2.4	.2	.2	.0	.0	91.9
12015	1.2	.8	1.1	.0	.0	.0	.0	3.1	1.1	.1	1.4	.3	.5	.3	.3	93.3
18021	1.3	.8	.9	.0	.0	.0	.0	2.9	1.5	.6	1.1	.1	.6	.1	.1	93.1
TOT PCT TOT OBS:	1.2 5665	1.1	1.1	.0	.0	.0	.0	3.3	1.6	.7	1.6	.2	.5	.1	.1	92.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.8	2.0	.4	*	.0		5.8	11.0		4.7	6.5	6.2	7.5	6.6	7.0	4.6	4.7
NE	.5	2.2	.5	.1	.0	.0		3.3	7.7		3.1	2.7	3.3	4.7	4.4	1.8	2.5	3.6
E	.6	2.5	1.4	.4	*	.0		4.9	10.2		4.4	4.7	5.7	10.6	5.4	5.3	3.8	2.2
SE	1.0	9.4	13.5	3.7	.3	.0		28.0	13.9		29.8	25.2	27.5	25.6	28.2	26.9	28.1	30.2
S	1.5	9.7	8.2	2.1	.3	.0		21.8	11.9		21.5	21.0	21.5	22.5	20.4	22.6	24.4	17.0
SW	.9	5.5	3.5	.8	.2	*		11.0	11.2		11.0	11.5	11.0	5.8	10.6	11.2	11.4	12.4
W	.9	4.8	3.6	.8	.1	*		10.3	11.4		10.6	10.7	10.0	9.7	10.5	11.0	10.0	8.0
NW	.8	5.0	4.5	1.1	.1	.0		11.5	12.1		10.5	13.0	11.6	12.5	11.8	10.9	11.5	14.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		4.5	4.6	3.3	1.1	2.2	3.3	3.6	7.7
TOT OBS	869	3547	3146	794	87	5	8448		11.7		1594	631	1711	90	2134	577	1620	91
TOT PCT	10.3	42.0	37.2	9.4	1.0	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	1.7	2.9	1.0	.2	.0			5.8	11.0		5.2	6.3	6.7	4.6	
NE	1.6	1.4	.1	.1	.0			3.3	7.7		3.0	3.4	3.8	2.6	
E	1.8	2.2	.8	.1	.0			4.9	10.2		4.5	5.9	5.4	3.8	
SE	4.7	13.3	9.0	1.0	.1			28.0	13.9		28.4	27.4	27.9	28.3	
S	5.8	10.6	4.5	.8	*			21.8	11.9		21.3	21.5	20.8	24.0	
SW	3.4	5.4	1.7	.4	.1			11.0	11.2		11.1	10.7	10.7	11.5	
W	3.1	4.9	1.8	.4	.1			10.3	11.4		10.6	9.9	10.6	9.9	
NW	2.9	5.7	2.5	.4	*			11.5	12.1		11.2	11.7	11.6	11.7	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	3.4							3.4	.0		4.5	3.2	2.4	3.8	
TOT OBS	2407	3925	1823	265	28	8448			11.7		2225	1801	2711	1711	
TOT PCT	28.5	46.5	21.6	3.1	.3			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1855-1975

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.5	7.3	41.8	35.6	9.4	1.2	.1	11.5	100.0	2225
06009	3.2	7.1	43.9	36.9	8.3	1.7	.0	11.4	100.0	1801
12015	2.4	6.8	40.1	39.1	10.4	1.1	.1	12.1	100.0	2711
18021	3.8	6.2	43.1	36.8	8.9	1.1	.1	11.6	100.0	1711
TOT	289	580	3547	3146	794	87	5	11.7		8448
PCT	3.4	6.9	42.0	37.2	9.4	1.0	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.8	1.6	1.3	4.5	
NE	2.1	.5	.8	.4	2.7	
E	3.8	.5	.5	.2	1.5	
SE	17.9	5.6	4.9	1.6	2.4	
S	9.4	4.6	5.1	2.4	3.4	
SW	3.5	2.3	3.2	1.9	4.2	
W	2.9	2.0	3.0	1.7	4.4	
NW	3.0	2.0	3.7	2.1	4.6	
VAR	.0	.0	.0	.0	.0	
CALM	1.9	.4	.6	.4	2.7	
TOT OBS	2083	845	1053	541	4522	3.3
TOT PCT	46.1	18.7	23.3	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.1	.1	.1	.5	.7	.3	.2	*	*	*	3.1	
*	.0	.1	.2	.2	.1	*	*	*	*	3.1	
*	.0	.0	.1	.2	.1	.1	.0	.0	*	4.5	
*	*	.1	.8	2.4	.9	.6	.2	.1	.1	24.9	
.1	*	.2	.9	2.9	1.3	.5	.1	.1	.1	15.4	
*	*	.1	1.0	1.7	.8	.3	*	*	*	7.0	
.0	*	.1	.7	1.5	.9	.2	.1	.0	.1	6.0	
.1	.2	.2	1.1	1.9	.8	.3	.1	*	*	6.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	*	.1	.2	.3	*	.0	*	*	2.5	
22	7	40	241	527	248	98	26	13	18	3282	
.5	.2	.9	5.3	11.7	5.5	2.2	.6	.3	.4	72.6	
										4522	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	3.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4
* OR >2000	8.0	8.7	8.8	8.8	8.8	8.8	8.8	8.8
* OR >1000	18.3	20.2	20.6	20.6	20.6	20.6	20.6	20.6
* OR >600	22.3	25.3	26.0	26.0	26.0	26.0	26.0	26.0
* OR >300	22.7	26.1	26.8	26.9	26.9	26.9	26.9	26.9
* OR >150	22.8	26.2	27.0	27.0	27.0	27.0	27.0	27.1
* OR >0	22.8	26.4	27.1	27.3	27.3	27.5	27.5	27.5
TOTAL	1069	1236	1271	1277	1281	1287	1287	1289

TOTAL NUMBER OF OBS: 4685

PCT FREQ NH <5/8: 72.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
26.5	14.2	13.1	10.4	7.6	5.0	6.5	6.5	9.8	.2	4915

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1855-1975

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*		
	NO PCP	.1	.1	.1	.1	*	.0	.0	.1	.0	.1	.5		
	TOT %	.1	.1	.1	.1	*	*	.0	.1	.0	.1	.5		
1/2<1	PCP	*	*	*	.0	.0	.0	*	*	.0	.0	.1		
	NO PCP	.1	*	.0	.0	.0	.0	.0	.1	.0	*	.2		
	TOT %	.1	.1	*	.0	.0	*	*	.1	.0	*	.3		
1<2	PCP	.0	.0	.0	.0	*	.0	*	*	.0	.0	.1		
	NO PCP	*	*	*	.0	*	.0	*	.1	.0	.1	.3		
	TOT %	*	*	*	.0	.1	.0	.1	.1	.0	.1	.3		
2<5	PCP	.1	*	.0	*	.1	.1	.1	.1	.0	*	.4		
	NO PCP	.1	.0	.1	.1	.2	*	.1	.1	.0	.1	.7		
	TOT %	.1	*	.1	.1	.3	.1	.2	.2	.0	.1	1.1		
5<10	PCP	.3	*	*	.2	.2	.3	.3	.4	.0	*	1.7		
	NO PCP	.7	.3	.5	1.9	2.1	1.2	1.3	1.4	.0	.4	9.9		
	TOT %	1.0	.4	.5	2.1	2.3	1.5	1.7	1.8	.0	.4	11.6		
10+	PCP	.2	.1	.0	.1	.1	.1	.2	.2	.0	.0	1.0		
	NO PCP	3.8	3.0	4.4	26.9	18.8	9.0	7.9	8.8	.0	2.5	85.2		
	TOT %	4.0	3.1	4.4	27.0	19.0	9.1	8.1	9.0	.0	2.5	86.2		
TOT OBS														5430
TOT PCT														
														</

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(OVER-ALL) 1855-1975AREA 0018 ALEXANDER BAY SW
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.3	.1	.8	4.6	11.0	5.1	1.8	.3	.5	.4	24.9	75.1	1136
06009	.6	.3	1.3	5.8	13.0	6.2	2.7	.6	.2	.4	31.2	68.8	1250
12015	.7	.1	.8	5.7	12.2	4.8	2.1	.5	.2	.4	27.5	72.5	1362
18021	.2	.1	.5	4.9	9.4	4.9	1.6	.8	.1	.3	22.7	77.3	1077
TOT	22	7	41	255	555	253	101	27	13	19	1293	3532	4825
PCT	.5	.1	.8	5.3	11.5	5.2	2.1	.6	.3	.4	26.8	73.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.4	.4	1.4	13.3	83.9	1630
06009	.8	.3	.3	1.5	10.1	87.0	1526
12015	.5	.4	.4	.9	11.2	86.6	1802
18021	.4	.3	.1	1.1	10.1	87.9	1393
TOT	35	23	21	77	714	5481	6351
PCT	.6	.4	.3	1.2	11.2	86.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	1.3	7.1	19.2	73.7	1102
06009	.7	2.3	8.9	23.4	67.6	1220
12015	.7	1.7	8.2	20.3	71.5	1324
18021	.2	1.0	6.5	17.3	76.1	1039
TOT	22	75	364	947	3374	4685
PCT	.5	1.6	7.8	20.2	72.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.0	.0	.0	.0	.0	.0	1	*
75/79	.0	.0	.0	.0	.0	*	.0	.0	2	*
70/74	.0	.0	.0	*	.2	.1	.0	.1	23	.5
65/69	*	*	.1	.2	1.3	2.5	2.0	.5	321	6.7
60/64	.0	*	.3	1.9	8.1	18.4	21.1	10.2	2896	60.0
55/59	.0	.0	.1	1.4	6.2	9.1	9.9	5.7	1562	32.4
50/54	.0	.0	.0	.0	*	.1	.1	.2	21	.4
TOTAL	1	3	20	171	767	1461	1597	806	4826	100.0
PCT	*	.1	.4	3.5	15.9	30.3	33.1	16.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	.0	.0	.0	.0	.0
.0	.0	.0	.0	*	*	.0	.0	.0	.0
.1	*	*	.1	.1	*	.1	*	.0	.0
.5	.6	.6	1.7	1.2	.4	.6	.9	.0	.2
3.4	2.4	3.0	16.5	12.1	6.3	6.8	7.7	.0	1.9
1.3	.7	1.5	11.1	8.3	3.8	2.5	2.1	.0	1.1
*	.0	.1	.1	*	*	*	.1	.0	*
5.2	3.6	5.2	29.5	21.8	10.6	10.0	10.8	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	66	64	60	55	54	51	59.7	2271
06009	74	66	64	60	56	54	50	60.0	1839
12015	81	71	67	62	58	56	50	62.2	2709
18021	74	66	64	60	56	54	52	60.3	1736
TOT	81	68	65	60	56	54	50	60.7	8555

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.1	13.2	26.6	36.9	20.1	81	1251
06009	.0	3.2	14.7	27.8	33.4	21.0	80	1235
12015	.1	6.2	19.9	33.4	28.9	11.6	76	1409
18021	.0	3.1	14.4	31.9	33.7	16.9	79	1123
TOT	1	200	790	1504	1659	864	79	5018

PERIOD: (PRIMARY) 1915-1975
(OVER-ALL) 1855-1975

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.1	.0	*	.1	.0	7	.0	.1
9/10	.0	.0	.0	.1	*	.1	*	.0	14	.0	.3
7/8	.0	.0	*	.1	.3	.1	*	.0	27	.0	.5
6	.0	.0	*	.2	.3	.1	.0	.0	35	*	.7
5	.0	.0	.2	.7	.7	.1	*	.0	86	*	1.7
4	.0	*	.2	1.0	1.0	.1	.0	.0	114	*	2.2
3	.0	*	.4	2.5	.8	*	.0	.0	196	.1	3.8
2	.0	.1	1.2	3.9	1.3	.0	.0	.0	330	.1	6.4
1	.0	.1	3.0	7.2	.9	*	.0	.0	574	.1	11.2
0	.0	.4	5.6	8.9	.6	.0	.0	.0	778	.1	15.2
-1	.0	.5	9.1	8.5	.3	.0	.0	.0	925	.2	18.1
-2	*	.4	9.3	5.0	.1	*	.0	.0	749	.2	14.6
-3	*	.5	7.1	2.3	*	.0	.0	.0	506	.2	9.8
-4	*	.5	4.3	1.7	.0	.0	.0	.0	327	.2	6.3
-5	*	.6	2.7	.8	.0	*	.0	.0	207	.1	4.0
-6	.0	.3	1.0	.3	.0	.0	.0	.0	81	.1	1.5
-7/-8	.0	.4	.7	.2	.0	*	.0	.0	65	*	1.3
-9/-10	.0	.2	.3	*	.0	.0	.0	.0	27	.0	.5
-11/-13	*	.1	.1	*	.0	.0	.0	.0	12	.0	.2
-14/-16	.0	.0	.0	*	.0	.0	.0	.0	2	.0	*
TOTAL	.6		2295		321		7		5063	.78	4985
PCT	.1	4.1	45.3	43.3	6.3	.6	.1	*	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	*	.2	*	.0	.0	.0	.3	.2	.1	.0	.0	.0	.0	.0	.3	.3
1-2	.2	1.4	.3	.0	.0	.0	1.9	.2	1.4	.1	.0	.0	.0	.0	1.7	
3-4	*	.8	.8	.1	.0	.0	1.7	.0	.5	.3	*	.0	.0	.0	.7	
5-6	.0	.0	.8	*	.0	.0	.8	.0	.3	.1	*	.0	.0	.0	.4	
7	.0	*	.2	*	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.4	2.1	.2	.0	.0	5.0	.4	2.2	.5	*	.0	.0	.0	3.2	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.1	.0	.0	.0	.0	.2	.2	.6	.1	.0	.0	.0	.0	1.0	
1-2	.1	1.2	.2	.0	.0	.0	1.5	.4	5.6	1.7	.0	.0	.0	.0	7.7	
3-4	.0	.8	.5	.1	.0	.0	1.4	*	2.6	4.9	.4	.0	.0	.0	8.0	
5-6	.0	.1	.7	.1	.0	.0	.9	*	.6	5.0	.6	.1	.0	.0	6.2	
7	.0	*	.3	.2	.0	.0	.5	.0	.1	2.6	.7	.1	.0	.0	3.6	
8-9	.0	.0	.2	.1	.0	.0	.3	.0	*	1.1	.7	.0	.0	.0	1.8	
10-11	.0	.0	.0	*	.0	.0	*	.0	.0	.4	.6	*	.0	.0	1.1	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	*	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.2	1.9	.6	.0	.0	5.0	.7	9.6	16.1	3.6	.3	.0	.0	30.2	

PERIOD: (OVER-ALL) 1963-1975

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AREA 0018 ALEXANDER BAY SW
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S								SW							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.5	.7	.0	.0	.0	.0	1.2		.1	.4	.0	.0	.0	.0	.5	
1-2	.5	5.3	1.4	.0	.0	.0	7.2		.4	3.9	.6	.0	.0	.0	4.8	
3-4	.1	2.3	3.0	.1	.0	.0	5.5		.0	1.2	1.4	.0	.0	.0	2.6	
5-6	.0	.5	3.2	.4	.0	.0	4.1		.0	.2	1.1	.2	.0	.0	1.6	
7	.0	.1	1.1	.6	.0	.0	1.9		.0	.0	.7	.2	.0	.0	1.0	
8-9	.0	.0	.3	.2	.0	.0	.6		.0	.0	.2	.1	.0	.0	.3	
10-11	.0	.0	.1	.3	.1	.0	.5		.0	.1	.0	.0	.0	.0	.1	
12	.0	.0	.0	.1	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	9.0	9.2	1.8	.2	.0	21.2		.5	5.9	4.0	.6	.1	.0	11.1	

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.3	.5	.0	.0	.0	.0	.8		.1	.4	.0	.0	.0	.0	.6		
1-2	.4	2.8	.7	.0	.0	.0	3.9		.3	2.5	.9	.0	.0	.0	3.7		
3-4	.0	1.4	1.6	.1	.0	.0	3.1		.0	1.3	1.7	.1	.0	.0	3.2		
5-6	.0	.3	.9	.2	.0	.0	1.4		.0	.3	1.6	.3	.0	.0	2.1		
7	.0	.0	.4	.2	.0	.0	.7		.0	.1	.6	.2	.0	.0	.8		
8-9	.0	.0	.1	.1	.0	.0	.1		.0	.0	.1	.1	.0	.0	.2		
10-11	.0	.0	.0	.0	.0	.0	.1		.0	.0	.1	.0	.0	.0	.1		
12	.0	.0	.1	.0	.0	.0	.1		.0	.0	.0	.1	.0	.0	.1		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.1		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.1		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.7	5.1	3.9	.5	.1	.0	10.3		.5	4.6	4.8	.9	.0	.0	10.9	96.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.8	3.4	.2	.0	.0	.0	9.4	
1-2	3.0	24.1	5.7	.0	.0	.0	32.8	
3-4	.2	10.5	13.8	.9	.0	.0	25.5	
5-6	.0	2.4	12.9	1.6	.1	.0	17.0	
7	.0	.4	5.7	2.1	.1	.0	8.4	
8-9	.0	.1	1.8	1.3	.0	.0	3.2	
10-11	.0	.1	.7	1.1	.2	.0	2.0	
12	.0	.0	.2	.4	.0	.0	.6	
13-16	.0	.0	.2	.3	.1	.0	.6	
17-19	.0	.1	.0	.1	.1	.0	.3	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.1	41.0	41.3	8.0	.6	* 100.0	3228	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	4.5	5.1	3.4	2.3	1.2	.8	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	789	4
6-7	.0	.5	4.2	5.2	4.6	3.4	2.8	1.4	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	981	7
8-9	.0	.2	1.2	3.2	4.0	4.0	3.0	1.7	3.1	.9	.3	.2	.1	.0	.0	.0	.0	.0	.0	891	9
10-11	.0	.3	.7	1.2	2.1	2.0	2.1	1.4	1.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	496	9
12-13	.0	.0	.6	.8	.9	1.1	1.1	.8	1.5	.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	327	10
>13	.0	.0	.0	.8	.5	.5	.6	.4	.7	.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	178	12
INDET	1.6	1.0	1.6	1.6	1.4	1.0	.6	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	397	5
TOTAL	120	265	543	659	641	534	448	259	373	124	43	10	0	0	0	0	0	0	0	4059	8
PCT	3.0	6.5	13.4	16.2	15.8	13.2	11.0	6.4	9.2	3.1	1.1	1.0	.2	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1855-1975

TABLE 1

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT CB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.4	.7	2.3	.0	.0	.0	.0	4.4	1.6	1.9	1.0	.2	2.1	.0	88.7
NE	.0	.0	.6	.0	.0	.0	.0	.6	.2	1.2	2.6	.0	3.5	2.4	89.6
E	.3	.2	.3	.0	.0	.0	.0	.5	.0	.3	1.3	.0	1.1	.0	96.8
SE	.2	.2	.2	.0	.0	.0	.0	.5	.5	.2	.7	.1	.6	.1	97.2
S	.4	.9	1.1	.0	.0	.0	*	2.4	1.6	.4	1.5	.1	1.0	.1	93.0
SW	.9	2.8	1.0	.0	.0	.0	.1	4.8	3.3	.9	.7	.0	.2	.0	90.1
W	1.3	2.2	1.9	.0	.0	.0	.0	5.4	3.7	.6	.6	.2	.6	.0	89.0
NW	2.3	1.2	2.6	.0	.0	.0	.0	6.1	3.9	.3	.6	.1	.8	.0	88.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.6	1.1	1.1	.0	94.5
TOT PCT	.7	.9	1.0	.0	.0	.0	*	2.6	1.7	.5	1.0	.1	.9	.1	93.1
TOT OBS:	6034														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT CB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.7	1.1	1.3	.0	.0	.0	.0	3.1	1.2	1.6	1.0	.1	.4	.1	92.4
06009	.5	.9	1.4	.0	.0	.0	.0	2.6	2.0	.3	1.1	.1	.7	.1	93.2
12015	.6	1.0	.7	.0	.0	.0	.0	2.3	1.7	.0	1.4	.2	1.2	.2	93.0
18021	1.1	.7	.6	.0	.0	.0	.1	2.4	2.0	.4	1.2	.1	1.1	.1	92.7
TOT PCT	.7	.9	1.0	.0	.0	.0	*	2.6	1.7	.6	1.2	.1	.8	.1	92.9
TOT OBS:	6246														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.5	2.3	1.5	.3	*	.0		4.6	10.5	4.7	4.9	4.8	5.9	4.9	4.9	3.9	2.0		
NE	.2	1.7	.5	.1	*	.0		2.6	8.5	2.7	2.3	3.0	4.8	3.0	1.7	1.7	2.0		
E	.6	2.4	1.5	.3	*	.0		4.8	10.5	4.5	4.4	5.4	5.9	5.3	5.5	3.5	5.0		
SE	1.0	10.2	15.2	4.9	.6	.0		31.9	14.6	31.6	29.6	32.5	32.0	32.1	30.2	32.3	36.4		
S	1.1	9.4	8.6	2.0	.2	.0		21.3	12.1	20.2	22.3	22.1	25.4	19.5	23.6	22.3	20.8		
SW	1.0	5.7	3.5	.9	.1	.0		11.1	10.9	11.2	12.4	10.6	9.2	11.1	10.2	11.6	8.1		
W	.8	5.6	2.8	.7	.1	*		10.1	10.7	10.1	9.4	9.5	7.5	10.9	10.9	10.0	11.6		
NW	.7	4.5	4.1	.9	.1	*		10.4	12.2	10.3	9.9	9.4	7.5	10.9	9.8	11.6	8.8		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.3							3.3	.0	4.8	4.9	2.6	1.8	2.3	3.1	3.2	5.3		
TOT OBS	833	3777	3400	897	110	2	9019		12.0	1746	649	1816	114	2227	607	1746	114		
TOT PCT	9.2	41.9	37.7	9.9	1.2	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	1.4	2.4	.7	.1	*		4.6	10.5	4.7	4.9	4.9	3.8
NE	1.1	1.2	.2	*	.0		2.6	8.5	2.6	3.1	2.7	1.7
E	1.7	2.1	.8	.2	.0		4.8	10.5	4.5	5.4	5.4	3.6
SE	4.7	15.0	10.0	2.2	*		31.9	14.6	31.1	32.5	31.7	32.6
S	5.1	11.2	4.3	.7	*		21.3	12.1	20.8	22.3	20.4	22.2
SW	3.5	5.3	1.9	.4	*		11.1	10.9	11.6	10.5	10.9	11.3
W	3.2	5.1	1.5	.3	*		10.1	10.7	9.9	9.4	10.9	10.1
NW	2.6	5.3	2.0	.4	.1		10.4	12.2	10.1	9.3	10.7	11.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.3						3.3	.0	4.8	2.6	2.5	3.3
TOT OBS	2406	4284	1917	394	18	9019		12.0	2395	1930	2834	1860
TOT PCT	26.7	47.5	21.3	4.4	.2		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1855-1975AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
HOUR CALM									
0000	4.8	6.1	41.5	37.2	9.5	.8	.0	11.5	100.0
0600	2.6	5.7	44.5	36.4	9.6	1.2	.0	11.9	100.0
1200	2.5	6.0	39.3	40.2	10.3	1.6	*	12.4	100.0
1800	3.3	5.9	43.5	35.9	10.3	1.2	.1	12.0	100.0
TOT	296	537	3777	3400	897	110	2	12.0	9019
PCT	3.3	6.0	41.0	37.7	9.9	1.2	*	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	1.3	.5	1.3	.9		4.5
NE	1.8	.3	.4	.2		2.2
E	3.6	.6	.6	.1		1.7
SE	18.3	6.1	7.3	2.2		2.7
S	8.6	4.2	5.8	2.2		3.5
SW	3.4	2.5	3.2	1.3		4.0
W	3.3	2.4	3.0	1.7		4.1
NW	2.6	1.9	2.9	2.5		4.7
VAR	.0	.0	.0	.0		.0
CALM	2.1	.4	.5	.2		2.1
TOT OBS	2297	948	1252	563	5020	3.3
TOT PCT	45.0	18.9	24.9	11.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	*	.1	.3	.7	.4	.2	.0	.1	*	2.1	
*	.0	.0	.1	.1	.1	*	.0	*	*	2.3	
.0	.0	.0	.1	.2	.2	.1	*	.0	*	4.3	
*	.1	.1	1.1	3.4	2.2	.6	.1	.1	*	26.1	
.1	*	.3	1.3	2.6	1.4	.5	.1	.1	.1	14.2	
.0	*	.1	.7	1.6	.8	.2	.1	*	*	6.8	
.1	*	.1	.6	1.8	.8	.2	*	*	.1	6.5	
.1	*	.2	.9	1.8	.7	.3	.1	*	*	5.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.2	.1	*	*	*	.0	2.7	
13	8	47	273	626	334	107	31	16	21	3544	5020
.3	.2	.9	5.4	12.5	6.7	2.1	.6	.3	.4	70.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.7	.7	.7	.7	.7	.7	.7
* OR >5000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	3.1	3.3	3.4	3.4	3.4	3.4	3.4	3.4
* OR >2000	8.9	9.9	10.0	10.0	10.0	10.0	10.0	10.0
* OR >1000	19.7	22.1	22.4	22.4	22.5	22.5	22.5	22.5
* OR >600	24.1	27.4	27.9	27.9	28.0	28.0	28.0	28.0
* OR >300	24.5	28.2	28.8	28.9	28.9	29.0	29.0	29.0
* OR >150	24.6	28.3	28.9	29.0	29.1	29.1	29.1	29.1
* OR >0	24.6	28.5	29.1	29.2	29.3	29.3	29.4	29.4
TOTAL	1268	1467	1498	1504	1508	1510	1515	1517

TOTAL NUMBER OF OBS: 5155

PCT FREQ NH <5/8: 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
26.1	14.0	11.5	10.8	7.6	5.7	7.4	7.1	9.6	.2	5395

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1855-1975

JULY

AREA 0018 ALEXANDER BAY SW
30.4S 14.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.3
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.3
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.4
2<5	PCP	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3
	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.7
	TOT %	.1	.1	.1	.1	.2	.1	.2	.2	.1	.1	.1	1.0
5<10	PCP	.1	.0	.0	.1	.3	.3	.2	.3	.0	.0	.0	1.3
	NO PCP	.9	.4	.5	3.8	2.1	1.2	1.3	1.6	.0	.3	.3	12.2
	TOT %	1.0	.4	.5	3.9	2.3	1.5	1.5	2.0	.0	.3	.3	13.5
10+	PCP	.0	.0	.0	.0	.1	.2	.3	.2	.0	.0	.0	.8
	NO PCP	3.1	2.2	4.2	29.2	17.6	9.0	8.2	7.8	.0	2.7	83.8	
	TOT %	3.1	2.2	4.2	29.2	17.7	9.2	8.4	8.0	.0	2.7	84.7	
TOT OBS													6030
TOT PCT		4.3	2.7	4.9	33.4	20.5	10.8	10.2	10.2	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.1	.1	.1	.1	.1	.0	.0	.5	
	11-21	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.1	.1	.1	.2	.1	.2	.2	.0	.0	1.1	
5<10	0-3	.1	.0	.0	.1	.2	.1	.0	.1	.0	.4	.9	
	4-10	.3	.3	.3	1.0	.8	.6	.7	.7	.0	.0	4.7	
	11-21	.5	.1	.2	1.8	.9	.5	.4	.8	.0	.0	5.3	
	22+	.1	.0	.0	.7	.3	.2	.2	.3	.0	.0	1.9	
	TOT %	1.0	.4	.5	3.6	2.2	1.4	1.4	1.9	.0	.4	12.7	
10+	0-3	.3	.2	.4	.8	.8	.6	.4	.0	2.9	7.2		
	4-10	1.9	1.5	2.1	9.5	8.9	5.2	5.0	3.8	.0	.0	38.0	
	11-21	.9	.4	1.3	13.5	6.8	2.6	2.3	3.3	.0	.0	31.3	
	22+	.1	.0	.3	5.1	1.5	.6	.5	.7	.0	.0	8.9	
	TOT %	3.3	2.2	4.1	28.9	18.0	9.3	8.4	8.2	.0	2.9	85.3	
TOT OBS													6827
TOT PCT		4.6	2.8	4.7	32.8	20.6	10.8	10.1	10.3	.0	3.3	100.0	

JULY

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1855-1975AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.1	1.0	3.9	12.2	4.7	1.8	.6	.2	.4	25.4	74.6	1246
06009	.2	.1	1.2	7.7	15.0	10.0	3.0	.9	.4	.4	38.6	61.2	1349
12015	.2	.3	.9	5.7	11.9	6.9	1.6	.5	.5	.3	28.8	71.2	1498
18021	.3	.1	.5	3.8	9.3	4.0	2.0	.3	.2	.4	20.9	79.1	1212
TOT	16	8	49	284	645	345	110	71	16	21	1525	3780	5305
PCT	.3	.2	.9	5.4	12.2	6.5	2.1	.6	.3	.4	28.7	71.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.1	.2	.8	15.0	83.6	1804
06009	.4	.2	.1	1.4	12.2	85.6	1661
12015	.4	.2	.6	1.0	12.9	84.9	2015
18021	.6	.2	.4	1.5	11.2	86.2	1560
TOT	29	12	25	83	906	5985	7040
PCT	.4	.2	.4	1.2	12.9	85.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	1.8	6.4	20.4	73.2	1198
06009	.2	1.6	10.1	29.6	60.4	1322
12015	.2	1.7	8.8	21.6	69.7	1460
18021	.3	1.4	6.2	16.2	77.6	1175
TOT	16	83	411	1140	3604	5155
PCT	.3	1.6	8.0	22.1	69.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	*	.0	.0	.0	.0	.0	1	*
75/79	*	.0	*	*	.0	.0	.0	.0	3	.1
70/74	.0	.0	*	.1	.1	.0	.0	.0	10	.2
65/69	.0	.0	.1	.2	.7	.8	.5	.1	127	2.4
60/64	.0	*	.2	1.3	6.0	14.6	14.4	5.0	2227	41.5
55/59	.0	.0	.3	2.4	8.3	15.2	18.1	8.7	2843	53.0
50/54	.0	.0	.0	.2	.8	.6	.6	.5	150	2.8
45/49	.0	.0	.0	.0	*	*	*	.0	5	.1
TOTAL	1	1	35	226	852	1674	1808	769	5366	100.0
PCT	*	*	.7	4.2	15.9	31.2	33.7	14.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
*	.0	.0	*	.0	.0	.0	.0	.0	.0
.0	.0	.0	.1	.0	*	.1	.0	.0	*
.1	.1	.2	.6	.5	.2	.2	.3	.0	.1
2.0	1.4	2.3	13.1	7.8	4.0	4.4	5.3	.0	1.2
1.9	1.0	2.2	19.0	11.7	5.7	5.4	4.3	.0	1.6
.1	*	.1	.6	.6	.8	.3	.1	.0	.1
.0	.0	.0	.0	*	*	.0	.0	.0	.0
4.2	2.6	4.8	33.4	20.6	10.8	10.4	10.1	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	64	62	58	55	52	48	58.3	2440
06009	78	64	62	59	54	52	48	58.6	1956
12015	82	69	66	61	56	54	49	60.8	2835
18021	77	65	63	59	55	52	48	58.9	1892
TOT	82	67	64	59	55	52	48	59.3	9123

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.6	11.6	28.1	37.4	18.3	80	1384
06009	.1	4.2	14.5	29.1	35.5	16.7	79	1342
12015	.0	6.9	21.9	32.9	28.8	9.4	76	1534
18021	.0	3.6	13.9	33.3	33.9	15.3	79	1264
TOT	1	273	873	1712	1869	816	78	5544

JULY

PERIOD: (PRIMARY) 1922-1975
(OVER-ALL) 1855-1975

TABLE 17

AREA 0016 ALEXANDER BAY SW
30.45 14.7EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	*	.0	.0	*	*	*	5	.0	.1
14/16	.0	.0	.0	*	.0	.0	.0	*	.0	.0	2	.0	*
11/13	.0	.0	.0	*	*	*	.1	*	.0	.0	7	.0	.1
9/10	.0	.0	.0	*	*	*	.1	*	.0	.0	8	.0	.1
7/8	.0	.0	.0	.1	.3	.3	.1	.0	.0	.0	41	.0	.7
6	.0	.0	.0	.1	.3	.3	*	*	.0	.0	40	.0	.7
5	.0	.0	*	.2	.7	.4	.1	.0	.0	.0	76	*	1.3
4	.0	.0	.1	.4	1.2	.5	.0	.0	.0	.0	124	*	2.2
3	.0	.0	.1	1.0	2.4	.5	.0	.0	.0	.0	221	.1	3.9
2	.0	*	.3	2.2	4.2	.3	.0	.0	.0	.0	392	.1	6.9
1	.0	.0	.3	5.7	5.4	.1	.0	.0	.0	.0	638	.1	11.3
0	.0	.1	.7	11.6	4.6	.1	*	.0	.0	.0	951	.3	16.7
-1	.0	*	1.1	13.8	3.2	.0	.0	.0	.0	.0	1016	.2	18.0
-2	.0	.1	1.6	11.1	1.3	*	.0	.0	.0	.0	788	.2	13.9
-3	.0	*	2.0	7.0	.4	.0	.0	.0	.0	.0	540	.1	9.6
-4	.0	.1	1.9	3.5	.4	.0	.0	.0	.0	.0	328	.1	5.8
-5	*	*	1.6	1.9	.4	.1	.0	.0	.0	.0	223	.1	3.9
-6	*	.1	.8	.8	*	.0	.0	.0	.0	.0	96	.0	1.7
-7/-8	*	.2	.5	.3	.1	.0	.0	.0	.0	.0	64	.0	1.1
-9/-10	*	.1	.1	.1	.0	.0	.0	.0	.0	.0	20	.0	.4
-11/-13	.0	*	.0	*	.0	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	.0	.0	*	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	4	40	621	3353	1402	141	16	5	3	1	5586	70	5516
PCT	.1	.7	11.1	60.0	25.1	2.5	.3	.1	.1	*	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	*	.3	.0	.0	.0	.0	.3		.2	.1	.0	.0	.0	.0	.3	
1-2	.2	1.2	.2	.0	.0	.0	1.6		.1	1.0	.1	.0	.0	.0	1.2	
3-4	*	.5	.4	.1	.0	.0	.9		.0	.6	.3	*	.0	.0	.9	
5-6	.0	.1	.5	.0	.0	.0	.7		.0	.2	.1	.0	.0	.0	.2	
7	.0	*	.1	*	.0	.0	.2		.0	.0	.0	*	.0	.0	*	
8-9	.0	*	.0	*	.0	.0	.1		.0	*	*	.0	.0	.0	*	
10-11	.0	.0	.0	*	*	.0	*		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	*	*	.0	.0	*		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	*	.0	.0	*		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	*	.0	*		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.1	1.2	.3	*	.0	4.0		.2	1.9	.5	.1	.0	.0	2.7	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	*	.0	.0	.0	.5		.4	.9	*	.0	.0	.0	1.2	
1-2	.2	1.3	.2	.0	.0	.0	1.6		.3	5.3	1.2	.0	.0	.0	6.9	
3-4	.0	.6	.6	*	.0	.0	1.3		*	3.7	5.3	.2	.0	.0	9.3	
5-6	.0	.1	.5	.1	.0	.0	.8		*	.7	4.8	.8	.1	.0	6.4	
7	.0	.0	.2	.1	*	.0	.3		*	.2	2.6	1.2	.1	.0	4.2	
8-9	*	.0	*	.1	*	.0	.2		.0	.1	1.1	1.5	.3	.0	2.9	
10-11	.0	.0	*	*	.0	.0	*		.0	.1	.5	1.2	.1	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.2	.4	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.3	*	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	*	.0	.0	*	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	*	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	*	*	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.3	1.6	.4	*	.0	4.7		.8	11.0	16.0	5.7	.6	.0	34.0	

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.2	*	.0	.0	.0	1.7	.3	.7	.0	.0	.0	.0	1.0
1-2	.4	5.7	1.0	.0	.0	.0	7.1	.4	2.7	.3	.0	.0	.0	3.4
3-4	*	3.1	3.3	.2	.0	.0	6.6	*	1.1	.9	.0	.0	.0	2.0
5-6	*	.6	2.1	.2	.0	.0	2.9	.0	.4	.8	.1	.0	.0	1.3
7	.0	.2	.8	.2	*	.0	1.2	.0	.1	.6	.3	.0	.0	1.0
8-9	.0	.0	.4	.2	.0	.0	.6	.0	.0	.1	.1	*	.0	.2
10-11	.0	.0	.2	.2	.1	.0	.8	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	*	*	.0	*	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.1	.2	.0	.0	.3	.0	.0	*	.1	.0	.0	.2
17-19	.0	.0	*	.0	.0	.0	*	.0	.0	*	.1	.0	.0	.1
20-22	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.9	8.1	1.5	.1	.0	21.5	.8	5.0	2.8	.7	*	.0	9.3

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.8	*	.0	.0	.0	1.1	.1	.4	.0	.0	.0	.0	.5
1-2	.3	3.8	.4	.0	.0	.0	4.5	.1	2.3	.5	.0	.0	.0	2.8
3-4	.0	1.7	1.0	*	.0	.0	2.6	*	1.1	1.4	*	.0	.0	2.5
5-6	.0	.3	.9	.1	.0	.0	1.4	.1	.3	1.2	.2	.0	.0	1.7
7	.0	.1	.3	.2	.0	.0	.5	.0	.1	.7	.3	.0	.0	1.1
8-9	.0	*	.1	*	*	.0	.2	.0	.0	.2	.3	*	.0	.5
10-11	.0	.0	.0	.1	.0	*	.1	.0	.0	*	.1	*	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	*	*	.1	.0	.1
13-16	.0	.0	.0	*	*	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.6	2.7	.6	.1	*	10.7	.3	4.1	4.0	1.1	.1	*	9.6 96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	4.7	.1	.0	.0	.0	.0	11.0
1-2	2.4	23.1	3.7	.0	.0	.0	.0	29.3
3-4	.2	12.2	12.9	.6	.0	.0	.0	25.9
5-6	.1	2.8	10.7	1.5	.1	.0	.0	15.2
7	*	.7	5.2	2.3	.2	.0	.0	8.4
8-9	*	.1	2.0	2.2	.3	.0	.0	4.7
10-11	*	.1	.8	1.9	.2	*	.0	2.9
12	.0	.0	.2	.6	.1	.0	.0	.9
13-16	.0	.0	.2	.8	.1	.0	.0	1.0
17-19	.0	*	*	.1	*	*	.0	.2
20-22	.0	.0	.1	.1	*	.0	.0	.2
23-25	.0	.0	*	*	.1	.0	.0	.1
26-32	.0	.0	.0	.1	*	.0	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	9.1	43.6	36.1	10.1	1.0	.1	100.0	3577

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	4.6	5.1	3.5	2.4	1.3	.7	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	842
6-7	.0	.6	3.8	6.1	5.5	3.0	2.4	1.0	1.3	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	1073
8-9	*	.2	1.1	2.9	4.0	4.4	3.3	1.9	2.3	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	936
10-11	.0	.3	.5	.9	2.4	2.2	2.3	1.2	2.0	.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	561
12-13	.0	.0	.4	.5	1.0	1.0	.8	1.1	1.6	.4	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	328
>13	.0	.0	.0	.4	.5	.5	.5	.6	1.0	.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	192
INDET	1.6	1.1	1.1	1.6	1.6	1.4	1.4	.6	.7	.1	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	506
TOTAL	106	306	535	703	771	610	509	297	406	91	49	36	13	6	0	0	0	0	0	0	4438
PCT	2.4	6.9	12.1	15.8	17.4	13.7	11.5	6.7	9.1	2.1	1.1	.8	.3	.1	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975

AUGUST

AREA 0018 ALEXANDER BAY SW
30.35 14.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.6	2.3	1.2	.0	.0	.0	.0	4.2	2.3	.6	3.4	.0	3.3	.0	86.8
NE	.0	1.1	1.1	.0	.0	.0	.0	2.2	.0	4.3	1.1	.0	1.6	.0	90.8
E	.5	.0	.5	.0	.0	.0	.0	.9	.0	1.1	1.2	.0	.0	.0	96.8
SE	.1	.4	.2	.0	.0	.0	.0	.7	.4	.3	1.1	.1	1.0	.0	96.3
S	.9	1.3	.7	.0	.0	.0	.0	2.8	1.9	.2	.9	.0	.9	.1	93.1
SW	1.1	1.7	1.3	.0	.0	.0	.0	4.0	2.0	.3	.9	.1	.3	*	92.4
W	1.3	1.7	1.1	.0	.0	.0	.0	4.1	3.4	.2	1.2	.0	.3	.1	90.8
NW	1.9	2.4	2.4	.0	.0	.0	.0	6.5	3.2	.2	1.5	.2	1.2	.3	87.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.7	.0	.0	.0	.0	.0	.7	.0	2.2	3.6	.0	4.3	.0	89.2
TOT PCT	.8	1.2	.8	.0	.0	.0	.0	2.8	1.6	.4	1.2	.1	1.0	.1	93.0
TOT OBS:	6022														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.7	1.5	1.3	.0	.0	.0	.0	3.3	1.9	.9	1.1	.1	.4	.1	92.2
06009	1.1	1.2	.8	.0	.0	.0	.0	3.1	1.4	.2	1.3	.0	1.0	.0	93.0
12015	.3	1.2	.3	.0	.0	.0	.0	1.8	1.6	.1	1.2	.1	1.0	.2	94.1
18021	.9	.9	1.1	.0	.0	.0	.0	2.9	1.6	.4	1.4	.1	1.4	.1	92.3
TOT PCT	.8	1.2	.8	.0	.0	.0	.0	2.8	1.6	.4	1.2	.1	1.0	.1	93.0
TOT OBS:	6179														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.4	1.7	1.3	.2	.0	.0		3.6	10.7		3.2	4.5	3.9	5.9	3.9	4.6	2.6	1.0
NE	.2	1.1	.3	*	.0	.0		1.7	7.8		1.7	1.8	1.8	2.3	1.9	2.5	1.1	.0
E	.3	1.2	.9	.3	*	.0		2.8	11.4		2.7	3.4	3.2	7.7	3.1	2.2	1.7	2.9
SE	.7	8.5	13.5	5.7	.7	*		29.1	15.6		28.4	25.6	31.0	26.8	30.3	24.0	29.2	33.6
S	1.4	10.3	10.0	2.5	.4	.1		24.6	12.7		26.1	22.4	25.0	17.9	23.1	26.1	25.5	21.6
SW	1.1	6.9	4.0	1.0	.2	*		13.3	11.0		13.3	12.8	12.9	14.3	13.3	13.0	13.9	16.7
W	.7	6.2	3.2	.7	.2	*		11.1	10.9		10.3	11.6	9.8	13.8	11.4	10.8	12.6	11.5
NW	.6	5.3	4.5	.6	.1	*		11.1	11.6		10.3	13.7	10.9	11.5	10.9	13.9	10.7	10.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		4.1	4.2	1.7	.0	2.1	2.9	2.7	2.1
TOT DBS	732	3670	3352	978	145	12	8889		12.5		1766	598	1869	98	2122	581	1759	96
TOT PCT	8.2	41.3	37.7	11.0	1.6	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00 03	06 09	12 15	18 21
N	1.2	1.6	.7	.1	.0		3.6	10.7	3.5	4.0	4.1	2.5
NE	.8	.8	.1	.0	.0		1.7	7.8	1.8	1.8	2.0	1.1
E	.8	1.3	.6	.1	.0		2.8	11.4	2.9	3.4	2.9	1.8
SE	3.6	12.8	10.0	2.5	.1		29.1	15.6	27.7	30.8	28.9	29.5
S	5.4	12.6	5.5	1.0	.2		24.6	12.7	25.2	24.6	23.7	25.3
SW	4.3	6.5	2.0	.4	.1		13.3	11.0	13.1	13.0	13.2	14.0
W	3.3	5.8	1.5	.3	.1		11.1	10.9	10.6	10.0	11.3	12.5
NW	2.6	6.1	2.2	.2	*		11.1	11.6	11.1	10.9	11.5	10.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7				.0		2.7	.0	4.1	1.6	2.3	2.6
TOT DBS	2202	4231	2004	410	42	8889		12.5	2364	1967	2703	1855
TOT PCT	24.8	47.6	22.5	4.6	.5		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975AREA 0018 ALEXANDER BAY SW
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	4.1	6.2	41.9	36.0	10.1	1.6	.1	11.9	100.0	2364
06609	1.6	5.7	41.9	38.4	10.6	1.6	.3	12.6	100.0	1967
12615	2.3	5.2	39.6	39.4	11.6	1.7	.1	12.8	100.0	2703
18621	2.6	5.0	42.3	36.7	11.7	1.6	.1	12.5	100.0	1855
TOT	239	493	3670	3352	978	145	12	12.5		8889
PCT	2.7	5.5	41.3	37.7	11.0	1.6	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.4	.8	.8		5.1
NE	.7	.3	.3	.1		3.0
E	1.6	.4	.3	.4		2.8
SE	10.6	5.9	7.6	2.4		7.9
S	9.5	5.4	7.3	3.0		3.8
SW	3.7	3.7	3.8	1.6		4.1
W	2.9	2.3	3.2	2.1		4.4
NW	2.9	1.2	3.5	2.4		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.2	.3	.3	.4		3.0
TOT OBS	2013	1003	1379	663	5058	3.7
TOT PCT	39.8	19.8	27.3	13.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.1	.0	*	.3	.6	.3	.1	*	*	*	1.2	
.0	.0	*	.1	.1	*	*	*	.0	*	1.1	
.0	*	.0	.2	.2	.1	*	.1	*	*	2.2	
.1	.1	1.2	3.6	2.0	.8	.2	.1	.1	.1	24.4	
.2	1.4	3.8	1.9	.5	.1	.1	.1	.1	.1	17.1	
*	.1	.8	1.7	1.0	.4	.1	.1	.1	.1	8.6	
.1	*	.1	.9	1.5	1.2	.3	.1	.1	*	6.3	
*	.3	1.0	1.8	1.1	.5	.1	*	.1	.1	5.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	.0	*	.1	.2	.1	*	.0	.0	.0	1.8	
16	8	47	292	681	389	128	36	21	21	3419	5058
.3	.2	.9	5.8	13.5	7.7	2.5	.7	.4	.4	67.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	3.6	4.1	4.2	4.2	4.2	4.2	4.2	4.2
= OR >2000	10.6	11.7	11.8	11.8	11.8	11.8	11.8	11.8
= OR >1000	22.3	24.8	25.2	25.3	25.3	25.3	25.3	25.3
= OR >600	26.8	30.3	30.9	31.0	31.0	31.0	31.0	31.0
= OR >300	27.1	31.1	31.8	31.9	31.9	31.9	31.9	31.9
= OR >150	27.2	31.3	32.0	32.1	32.1	32.1	32.1	32.1
= OR >0	27.2	31.4	32.1	32.2	32.2	32.3	32.4	32.4
TOTAL	1409	1622	1658	1664	1666	1670	1675	1676

TOTAL NUMBER OF OBS: 5173

PCT FREQ NH <5/8: 67.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
21.8	14.1	12.1	10.4	8.7	5.8	7.6	8.1	11.3	.2	5390

PERIOD: (PRIMARY) 1923-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	NO PCP	.1	.0	*	.1	.1	*	.1	.1	.0	*	*	
	TOT %	.1	.0	*	.1	.1	*	.1	.1	.0	*	*	.4
1/2<1	PCP	.0	.0	.0	.0	*	.0	*	*	.0	.0	*	
	NO PCP	.0	.0	.0	.1	*	*	*	*	.0	.0	*	.2
	TOT %	.0	.0	.0	.1	*	*	*	*	.0	.0	*	.2
1<2	PCP	.0	.0	.0	.0	*	*	*	*	.0	.0	.1	
	NO PCP	*	*	.0	*	*	*	*	*	.0	.0	.1	
	TOT %	*	*	.0	*	*	*	*	.1	.0	.0	.2	
2<5	PCP	.0	*	.0	*	.1	.1	.1	.1	.0	.0	.4	
	NO PCP	.1	*	*	.1	.1	.1	.1	.2	.0	*	.8	
	TOT %	.1	*	*	.2	.2	.2	.2	.3	.0	*	1.2	
5<10	PCP	.1	*	.0	.1	.4	.2	.2	.3	.0	.0	1.4	
	NO PCP	.5	.2	.4	3.0	2.6	1.6	1.2	1.8	.0	.4	11.7	
	TOT %	.6	.3	.4	3.1	3.0	1.8	1.4	2.2	.0	.4	13.1	
10+	PCP	.0	.0	*	.1	.2	.1	.2	.2	.0	*	.9	
	NO PCP	1.8	1.2	2.3	28.2	21.6	10.7	8.6	7.7	.0	1.8	84.0	
	TOT %	1.8	1.2	2.4	28.3	21.8	10.9	8.7	7.9	.0	1.8	84.9	
TOT OBS		6020											
TOT PCT		2.7	1.5	2.7	31.7	25.1	12.9	10.4	10.5	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	*	.0	.1	.0	*	*	.0	*	.2	
	4-10	*	.0	.0	*	*	*	*	*	.0	*	.2	
	11-21	*	.0	.0	*	*	.0	*	*	.0	*	.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	
	TOT %	.1	.0	*	.1	.1	*	.1	.1	.0	*	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.1	.0	*	*	*	.0	.0	.1	
	11-21	.0	.0	.0	*	*	.0	.0	*	.0	*	*	
	22+	.0	.0	.0	*	*	.0	*	*	.0	*	*	
	TOT %	.0	.0	.0	.1	*	*	*	*	.0	.0	.2	
1<2	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	.0	.0	*	.0	*	*	.0	.0	*	*	
	11-21	*	.0	.0	.0	*	*	*	*	.0	*	.1	
	22+	.0	.0	.0	.0	*	.0	.0	*	.0	*	*	
	TOT %	*	*	.0	*	*	*	*	.1	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	*	*	*	.0	.0	*	.1	
	4-10	*	*	*	.1	.1	.1	.1	.1	.0	.5	.5	
	11-21	.1	*	.0	*	*	*	*	.2	.0	.5	.5	
	22+	.1	.0	.0	*	*	*	.1	.0	.0	.2	.2	
	TOT %	.2	.1	*	.2	.2	.2	.3	.3	.0	*	1.3	
5<10	0-3	.1	*	.1	.1	.2	.2	.1	.1	.0	.4	1.4	
	4-10	.3	.2	.1	.9	1.1	.6	.5	.7	.0	4.5	4.5	
	11-21	.4	*	.1	1.5	1.0	.5	.5	1.1	.0	5.0	5.0	
	22+	.1	.0	*	.5	.5	.3	.2	.2	.0	1.8	1.8	
	TOT %	.8	.3	.3	2.9	2.9	1.7	1.3	2.1	.0	.4	12.7	
10+	0-3	.2	.2	.2	.5	.9	.7	.4	.4	.0	2.3	5.9	
	4-10	1.1	.8	1.0	7.5	9.2	6.0	5.5	4.1	.0	35.2	35.2	
	11-21	.6	.3	1.0	13.5	9.7	3.3	2.2	2.9	.0	33.5	33.5	
	22+	.1	*	.3	6.4	2.2	.7	.5	.4	.0	10.6	10.6	
	TOT %	2.0	1.3	2.5	27.9	22.0	10.8	8.6	7.8	.0	2.3	85.2	
TOT OBS		6837											
TOT PCT		3.1	1.7	2.9	31.1	25.2	12.7	10.2	10.4	.0	2.7	100.0	

PERIOD: (PRIMARY) 1923-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3999	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.2	.0	1.1	6.0	12.5	6.5	2.1	.7	.4	.4	30.0	70.0	1228
06009	.4	.4	.9	6.5	15.4	9.6	3.3	.6	.5	.7	38.3	61.7	1382
12015	.2	.0	.7	5.1	12.8	7.9	2.1	.9	.3	.3	30.3	69.7	1500
18021	.4	.3	.9	4.8	11.5	5.6	2.5	.5	.5	.3	27.4	72.6	1187
TOT	16	8	48	297	696	397	133	37	22	24	1678	3619	5297
PCT	.3	.2	.9	5.6	13.1	7.5	2.5	.7	.4	.5	31.7	68.3	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.2	.2	.8	15.1	83.2	1770
06009	.5	.2	.1	1.7	11.5	85.9	1691
12015	.3	.2	.3	1.0	11.8	86.6	1988
18021	.6	.2	.3	1.6	12.4	84.9	1545
TOT	32	14	14	87	887	5960	6994
PCT	.5	.2	.2	1.2	12.7	85.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	1.4	8.1	23.2	68.7	1189
06009	.4	1.8	9.4	30.0	60.6	1361
12015	.2	1.0	7.0	24.3	68.7	1464
18021	.4	1.9	7.5	21.1	71.4	1159
TOT	16	77	413	1284	3476	5173
PCT	.3	1.5	8.0	24.8	67.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	*	*	.0	.0	.0	2	*
70/74	.0	.0	*	.1	*	.1	*	*	13	.2
65/69	.0	.0	*	.1	.5	.7	.4	.1	96	1.8
60/64	.0	*	.1	.9	4.9	10.3	10.9	3.7	1642	30.8
55/59	.0	.0	.2	2.1	11.0	17.7	22.3	10.7	3411	63.9
50/54	.0	.0	.0	.1	.6	.7	.8	.9	171	3.2
45/49	.0	.0	.0	.0	.0	*	.0	.0	1	*
TOTAL	0	2	17	174	912	1575	1835	821	5336	100.0
PCT	.0	*	.3	3.3	17.1	29.5	34.4	15.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	*	*	.0	.0	.0	.0	.0
70/74	.0	.0	*	.1	.1	.0	.0	*	.0	*
65/69	*	.1	.1	.5	.4	.2	.3	.2	.0	*
60/64	1.2	.7	1.2	9.2	5.8	3.4	3.8	4.8	.0	.6
55/59	1.3	.8	1.3	21.8	16.9	8.8	6.0	5.3	.0	1.6
50/54	.1	.0	.1	.8	1.0	.7	.4	.1	.0	*
45/49	.0	.0	.0	.0	.0	.0	*	.0	.0	.0
TOTAL	2.7	1.6	2.6	32.4	24.2	13.1	10.6	10.5	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	63	61	58	54	51	48	57.7	2380
06009	81	64	61	58	54	52	48	58.0	1971
12015	80	69	65	60	56	54	50	60.5	2698
18021	69	64	62	58	55	52	50	58.4	1873
TOT	81	66	63	59	55	52	48	58.8	8922

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.4	13.8	26.3	36.8	20.7	81	1355
06009	.0	3.3	15.1	27.8	36.0	17.8	80	1365
12015	.0	5.9	23.8	34.1	27.8	8.4	75	1522
18021	.0	2.7	14.5	28.9	38.2	15.7	80	1240
TOT	0	200	935	1614	1887	846	79	5482

AUGUST

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975AREA 0018 ALEXANDER BAY SW
30.35 14.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WU FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	3	.0	.1
14/16	.0	.0	.0	*	.0	.0	*	*	.0	*	4	*	.1
11/13	.0	.0	.0	*	*	*	.1	.1	.0	.0	15	.0	.3
9/10	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	10	.0	.2
7/8	.0	.0	.0	.1	.2	.4	.1	.0	.0	.0	41	.0	.7
6	.0	.0	.0	.1	.4	.3	.0	.0	.0	.0	43	.0	.8
5	.0	.0	.1	.3	.8	.5	.0	.0	.0	.0	90	*	1.6
4	.0	.0	.2	.7	1.5	.2	*	.0	.0	.0	142	*	2.6
3	.0	.0	.1	1.0	2.4	.1	.0	.0	.0	.0	204	*	3.7
2	.0	*	.6	3.1	4.1	.1	.0	.0	.0	.0	432	.1	7.8
1	.0	*	.5	6.7	3.7	*	.0	.0	.0	.0	600	.1	10.9
0	.0	.1	1.4	13.7	2.5	.1	.0	.0	.0	.0	972	.1	17.6
-1	.0	*	1.7	16.3	.9	*	.0	.0	.0	.0	1033	.3	18.6
-2	*	.1	3.1	9.3	.4	*	.0	.0	.0	.0	709	.2	12.7
-3	.0	.1	3.2	6.0	.2	*	.0	.0	.0	.0	518	.1	9.3
-4	.0	*	2.9	2.6	.1	.0	.0	.0	.0	.0	306	.1	5.5
-5	.0	.1	1.4	1.6	*	.0	.0	.0	.0	.0	168	.0	3.1
-6	.0	*	.8	.5	.0	.0	.0	.0	.0	.0	73	.0	1.3
-7/-8	.0	.1	.6	.5	.1	.0	.0	.0	.0	.0	69	.1	1.2
-9/-10	.0	.1	.2	.1	*	.0	.0	.0	.0	.0	22	.0	.4
-11/-13	*	*	.1	.1	.0	.0	.0	.0	.0	.0	9	.0	.2
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	3		919		944		16		4		5468		5408
PCT	.1	.8	16.8	62.9	17.3	1.7	.3	.1	.1	*	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	*	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.2
1-2	.1	.6	.2	.0	.0	.0	.9	.1	.4	.1	.0	.0	.0	.6
3-4	.0	.3	.2	.1	.0	.0	.6	*	.2	.1	.0	.0	.0	.3
5-6	.0	*	.2	.1	.0	.0	.3	.0	.0	*	.0	.0	.0	*
7	.0	*	.1	.0	.0	.0	.1	.0	.0	.0	*	.0	.0	*
8-9	.0	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.1	.7	.1	.0	.0	2.0	.2	.7	.2	*	.0	.0	1.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.2	.0	.0	.0	.0	.2	.1	.6	.1	.0	.0	.0	.8
1-2	*	.5	.3	.0	.0	.0	.8	.1	4.1	1.2	.0	.0	.0	5.4
3-4	.0	.2	.4	*	.0	.0	.7	.1	2.8	5.9	*	.0	.0	9.1
5-6	.0	.0	.3	*	.0	.0	.4	.0	.5	5.5	1.3	.1	.0	7.4
7	.0	.0	.2	.2	.0	.0	.4	.0	.1	2.2	2.3	.2	.0	4.8
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.8	1.3	.2	.0	2.2
10-11	.0	.0	*	.0	*	.0	.1	.0	.0	.2	1.2	.2	.0	1.6
12	.0	.0	.0	*	.0	.0	*	.0	.0	*	.3	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.0	.4
17-19	.0	.0	*	.0	.0	.0	*	.0	.0	*	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	1.3	.4	*	.0	2.7	.3	8.0	15.9	7.1	.9	.0	32.3

PERIOD: (OVER-ALL) 1963-1975

AUGUST

AREA 0018 ALEXANDER BAY SW
30.35 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	1.0	.0	.0	.0	.0		1.3	.6	1.1	*	.0	.0	.0		1.7
1-2	.3	5.4	1.3	.0	.0	.0		7.0	.4	4.1	.5	.0	.0	.0		5.0
3-4	.1	2.8	3.9	.2	.0	.0		7.0	.0	1.7	1.9	.1	.0	.0		3.6
5-6	.0	.8	3.7	.5	.0	.0		4.9	.0	.4	1.0	.2	*	.0		1.7
7	*	.1	1.9	.9	.1	.0		2.9	.0	.2	.5	.3	.0	.0		.9
8-9	.0	.1	.5	.4	*	.0		1.1	.0	.0	.1	.1	*	.0		.3
10-11	.0	*	.2	.6	*	.0		.8	.0	*	*	.2	*	.0		.3
12	.0	.0	*	.2	*	.0		.2	.0	.0	.0	*	.0	.0		*
13-16	.0	.0	.1	.1	*	.0		.1	.0	.0	*	.1	.0	.0		.1
17-19	.0	.0	.0	.1	.1	.0		.1	.0	.0	.0	*	*	.0		.1
20-22	.0	.0	*	.0	.1	*		.1	.0	.0	.0	.0	.1	.0		.1
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	*	.0	.0		*
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	10.2	11.5	2.8	.3	*		25.7	.9	7.4	4.1	1.1	.2	.0		13.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.6	*	.0	.0	.0		.9	.2	.5	*	.0	.0	.0		.8	
1-2	.2	4.0	.5	.0	.0	.0		4.4	.1	2.6	.7	.0	.0	.0		3.5	
3-4	.1	1.6	1.2	.1	.0	.0		2.9	.0	1.3	1.3	*	.0	.0		2.6	
5-6	.0	.3	.8	.1	.0	.0		1.2	.0	.3	1.3	.1	.0	.0		1.6	
7	.0	.1	.3	.2	.0	.0		.4	.0	*	.4	.1	.0	.0		.5	
8-9	.0	.0	.1	.1	.0	.0		.1	.0	*	.2	.1	.0	.0		.3	
10-11	.0	.1	.0	.1	.0	.0		.1	.0	.0	*	.1	.0	.0		.1	
12	.0	.0	.0	*	.0	.0		*	.0	.0	.0	*	.0	.0		*	
13-16	.0	.0	.0	.0	*	.0		*	.0	.0	.0	.1	*	.0		.1	
17-19	.0	.0	.0	.0	*	.0		*	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	*	.0	.0		.0	.0	.0	*	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	6.6	2.8	.6	.1	.0		10.6	.3	4.8	3.9	.5	*	.0		9.5	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	4.1	.2	.0	.0	.0	9.2	
1-2	1.9	21.7	4.6	.0	.0	.0	28.2	
3-4	.3	10.6	14.5	.8	.0	.0	26.2	
5-6	.0	2.3	12.5	2.3	.1	.0	17.1	
7	.0	.4	5.5	3.9	.3	.0	10.1	
8-9	*	.2	1.5	2.1	.3	.0	4.1	
10-11	.0	.1	.5	2.1	.3	.0	2.9	
12	.0	.0	.1	.5	*	.0	.7	
13-16	.0	.0	.1	.5	.2	.0	.8	
17-19	.0	.0	*	.1	.2	.0	.3	
20-22	.0	.0	.1	*	.1	*	.3	
23-25	.0	.0	.0	.1	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	39.3	39.6	12.3	1.5	*	100.0	3450

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	3.0	5.9	4.1	2.5	1.4	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	832	5
6-7	.0	.6	3.0	5.9	5.1	3.4	3.1	1.7	2.0	.3	.1	*	.1	.0	.0	.0	.0	.0	.0	1104	7
8-9	.0	.3	1.1	3.0	4.7	4.2	3.5	2.0	2.7	.7	.5	.1	*	*	.0	.0	.0	.0	.0	998	9
10-11	.0	.2	.5	1.5	2.2	2.4	2.1	1.4	2.2	.5	.3	*	*	.0	.0	.0	.0	.0	.0	583	9
12-13	.0	.0	.7	.2	.8	.9	1.3	.5	1.3	.4	.5	.1	.0	*	.0	.0	.0	.0	.0	292	11
>13	.0	.0	.0	.5	.2	.5	.4	.2	.7	.3	.5	.1	.1	.0	.0	.0	.0	.0	.0	150	13
INDET	1.0	.8	1.1	1.6	1.4	1.0	.9	.4	.8	.1	.1	.1	*	*	.0	.0	.0	.0	.0	410	7
TOTAL	80	210	542	731	738	601	528	286	434	104	80	19	11	5	0	0	0	0	0	4369	8
PCT	1.8	4.8	12.4	16.7	16.9	13.8	12.1	6.5	9.9	2.4	1.8	.4	.3	.1	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1855-1975

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	3.8	1.3	2.8	.0	.0	.0	.0	7.8	3.8	.0	4.4	.0	1.9	.0	82.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	13.8	.0	.9	.0	81.9
E	.0	.6	3.1	.0	.0	.0	.0	3.7	.0	.0	3.7	.0	2.2	.0	90.4
SE	.2	.4	.2	.0	.0	.0	.0	.7	.4	.6	1.0	.1	2.0	.1	95.2
S	.2	.6	.6	.0	.0	.0	.0	1.5	1.2	.8	1.5	.1	2.1	.0	92.8
SW	.7	.8	.2	.0	.0	.0	.1	1.7	1.5	.8	1.1	.2	.5	.0	94.2
W	.7	2.0	.5	.0	.0	.0	.0	3.2	2.8	.2	.5	.0	.7	.0	92.6
NW	.9	1.8	1.5	.0	.0	.0	.0	4.2	4.0	.5	.9	.0	1.2	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.8	4.2	4.2	.0	4.2	.0	84.7
TOT PCT	.4	.7	.5	.0	.0	.0	*	1.6	1.3	.7	1.3	.1	1.7	*	93.2
TOT OBS:	5891														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0000	.5	.8	.8	.0	.0	.0	.0	2.1	1.2	2.5	1.0	.1	1.1	.0	92.1
0600	.6	.8	.8	.0	.0	.0	.1	2.3	1.7	.1	1.6	.1	1.7	.0	92.5
1200	.2	.8	.2	.0	.0	.0	.0	1.2	1.0	.0	1.4	.2	2.4	.1	93.7
1800	.2	.5	.2	.0	.0	.0	.0	.9	1.2	.6	1.2	.0	1.6	.0	94.5
TOT PCT	.4	.7	.5	.0	.0	.0	*	1.7	1.3	.8	1.3	.1	1.7	*	93.2
TOT OBS:	6000														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.2	.9	.6	.1	*	.0		1.8	10.6		1.2	2.6	2.2	2.0	1.9	2.4	1.4	1.5
NE	.1	.4	.1	*	.0	.0		.6	7.7		.5	.4	.3	.0	1.0	.5	.4	1.2
E	.1	.5	.5	.2	*	.0		1.3	12.7		.9	1.0	1.5	3.5	1.7	.8	1.1	.0
SE	.5	6.0	16.1	7.0	.8	*		30.4	17.0		30.8	27.5	32.5	32.1	31.6	25.1	28.6	37.0
S	1.0	11.3	17.5	5.1	.3	.0		35.2	14.2		35.2	32.7	34.4	40.4	33.6	38.8	37.5	34.9
SW	.8	7.5	4.9	.8	*	.0		13.9	10.6		13.5	16.7	13.1	9.1	13.3	15.6	14.7	13.3
W	.7	4.2	2.9	.4	.1	.0		8.3	10.7		8.8	9.3	8.1	4.5	8.2	8.8	8.1	3.7
NW	.4	3.0	3.2	.7	*	.0		7.3	12.3		7.2	8.0	6.5	8.3	8.0	7.4	6.9	7.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		1.9	2.0	1.4	.0	.8	.7	1.3	1.2
TOT OBS	452	2983	4044	1269	109	2	8859		13.8		1756	662	1893	99	2053	599	1716	81
TOT PCT	5.1	33.7	45.6	14.3	1.2	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.5	1.0	.3	*	.0		1.8	10.6	1.6	2.2	2.0	1.4	
NE	.3	.2	.1	.0	.0		.6	7.7	.5	.3	.9	.5	
E	.3	.6	.3	.1	.0		1.3	12.7	.9	1.6	1.5	1.1	
SE	2.2	12.3	13.0	2.7	.1		30.4	17.0	29.9	32.5	30.2	29.0	
S	4.9	17.5	11.4	1.5	*		35.2	14.2	34.5	34.7	34.8	37.4	
SW	3.8	7.8	2.2	.1	*		13.9	10.6	14.3	12.9	13.8	14.6	
W	2.6	4.3	1.2	.2	*		8.3	10.7	8.9	7.9	8.3	7.9	
NW	1.4	4.1	1.6	.1	.0		7.3	12.3	7.4	6.6	7.8	6.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.3						1.3	.0	1.9	1.4	.8	1.3	
TOT OBS	1533	4233	2653	424	16	8859		13.8	2418	1992	2652	1797	
TOT PCT	17.3	47.8	29.9	4.8	.2		100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1855-1975AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.9	4.2	36.1	42.6	13.6	1.5	.0	13.4	100.0	2418
06009	1.4	3.5	33.2	46.8	13.8	1.3	.1	13.9	100.0	1992
12015	.8	3.9	31.7	47.2	15.2	1.2	.0	14.1	100.0	2652
18021	1.3	3.5	33.7	46.1	14.5	.9	.1	13.8	100.0	1797
TOT	116	336	2983	4044	1269	109	2	13.8		8859
PCT	1.3	3.8	33.7	45.6	14.3	1.2	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 &	TOTAL OBS	MEAN CLOUD COVER
N	.2	.3	.3	.5		5.5
NE	.2	.1	.1	*		2.8
E	.6	.3	.3	.2		3.6
SE	17.1	6.0	8.2	2.9		3.1
S	14.4	6.9	9.8	4.7		3.7
SW	4.0	2.3	4.0	1.6		4.1
W	2.2	1.5	2.2	1.1		4.3
NW	1.5	1.2	2.6	1.5		5.0
VAR	.0	.0	.0	.0		.0
CALM	.3	.2	.3	.2		4.2
TOT OBS	1975	918	1358	620	4871	3.7
TOT PCT	40.5	18.8	27.9	12.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.2	.2	.2	*	*	.0	.0	.7	
.0	.0	.0	.0	*	*	.0	.0	.0	.0	.4	
*	.0	.0	*	.2	*	.0	.0	*	.0	1.1	
.1	.1	.3	1.5	3.7	1.9	.8	.3	.1	.1	25.5	
.2	.1	.5	2.3	4.8	2.6	.8	.3	.2	.1	24.0	
*	*	.1	.8	1.5	1.0	.5	.3	.1	.1	7.6	
.0	.0	.3	1.4	.5	.3	.1	*	.0	.0	4.4	
*	.0	.1	.5	1.4	.8	.2	.1	*	.0	3.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	.0	.1	.1	.1	.0	.0	.0	.0	*	.6	
20	9	45	278	653	341	128	49	17	13	3318	4871
.4	.2	.9	5.7	13.4	7.0	2.6	1.0	.3	.3	68.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
* OR >5000	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
* OR >3500	3.7	4.2	4.2	4.3	4.3	4.3	4.3	4.3
* OR >2000	9.8	11.1	11.2	11.2	11.2	11.2	11.2	11.2
* OR >1000	21.9	24.5	24.7	24.7	24.7	24.7	24.7	24.7
* OR >600	26.2	30.0	30.4	30.4	30.4	30.4	30.4	30.4
* OR >300	26.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3
* OR >150	26.7	30.9	31.4	31.5	31.5	31.5	31.5	31.5
* OR >0	26.8	31.0	31.6	31.7	31.7	31.8	31.9	31.9
TOTAL	1324	1531	1559	1565	1566	1569	1577	1578

TOTAL NUMBER OF OBS: 4939

PCT FREQ NH <5/8: 68.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
21.6	14.4	12.7	10.7	7.9	6.1	7.4	7.9	11.0	5171

SEPTEMBER

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1855-1975

TABLE 8

AREA 0018 ALEXANDER BAY SW
30.4S 14.7E

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	* .1	* .1	* .1	* .2	* .2	* .0	* .0	* .0	* .0	* .0	* .4	
	TOT %	* .1	* .1	* .1	* .2	* .2	* .0	* .0	* .0	* .0	* .0	* .4	
1/2<1	PCP	.0	.0	.0	.0	.0	* .0	* .0	.0	.0	.0	* .1	
	NO PCP	* .0	* .0	* .0	* .1	* .1	* .0	* .0	* .0	* .0	* .0	* .2	
	TOT %	* .0	* .0	* .0	* .1	* .1	* .0	* .0	* .0	* .0	* .0	* .2	
1<2	PCP	* .0	.0	.0	* .0	* .0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0 .0	.0 .0	.2 .2	.2 .2	* .0	* .0	* .0	* .0	* .0	* .0	.5	
	TOT %	* .0	.0 .0	.3 .3	.3 .3	* .0	* .0	* .0	* .0	* .0	* .0	.6	
2<5	PCP	* .0	.0	.0	* .0	* .0	* .0	* .0	* .0	.0	.0	.1	
	NO PCP	* .0	* .0	.2 .4	.4 .1	.1 .1	* .0	* .0	* .0	.1 .1	.1 .0	.9	
	TOT %	.1 .0	* .0	.2 .4	.4 .1	.1 .1	* .0	* .0	* .0	.1 .0	.1 .0	1.0	
5<10	PCP	* .0	* .0	.1 .3	.3 .1	.1 .1	.1 .1	.1 .0	.0 .0	.0 .0	.0 .0	.7	
	NO PCP	.1 .1	.1 .1	5.1 5.9	5.9 1.9	1.9 .7	1.0 .0	.0 .3	.3 15.2	.0 .3	.0 .3	15.2	
	TOT %	.2 .1	.1 .1	5.2 6.2	6.2 2.1	2.1 .7	1.1 .0	.3 .3	.3 16.0	.0 .3	.0 .3	16.0	
10+	PCP	* .0	* .0	.1 .2	.2 .1	.1 .1	.1 .0	.1 .0	.0 .0	.0 .0	.0 .0	.7	
	NO PCP	1.0 .3	1.2 .3	27.6 28.7	28.7 10.2	10.2 5.9	5.9 3.3	.0 .0	.0 .0	.0 .0	.0 .0	81.2	
	TOT %	1.1 .3	1.2 .3	27.7 28.9	28.9 10.3	10.3 6.0	6.0 3.4	.0 .0	.0 .0	.0 .0	.0 .0	81.9	
TOT OBS													5886
TOT PCT		1.4	.5	1.4	33.6	36.0	12.5	6.9	6.6	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	* .0	* .0	* .0	* .0	* .0	.0 .0	.0 .0	.0 .0	.0 .0	* .0	.1	
	4-10	* .1	* .1	* .1	* .1	.1 .1	.1 .0	* .0	* .0	.0 .0	* .0	.3	
	11-21	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.1	
	22+	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	* .0	
	TOT %	* .1	* .1	* .1	.1 .1	.2 .1	.1 .0	.0 .0	* .0	.0 .0	* .0	.5	
1/2<1	0-3	.0 .0	.0 .0	.0 .0	.0 .0	* .0	* .0	.0 .0	.0 .0	.0 .0	.0 .0	* .0	
	4-10	* .0	* .0	.0 .0	.0 .0	.0 .0	.0 .0	* .0	* .0	.0 .0	.0 .0	.1	
	11-21	.0 .0	.0 .0	.0 .0	* .0	* .0	* .0	* .0	* .0	.0 .0	.0 .0	.1	
	22+	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0	
	TOT %	* .0	.0 .0	.0 .0	* .0	* .0	* .0	* .0	* .0	.0 .0	.0 .0	.2	
1<2	0-3	.0 .0	.0 .0	.0 .0	* .0	* .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	* .0	
	4-10	.0 .0	.0 .0	.0 .0	* .0	* .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.1	
	11-21	* .0	* .0	.1 .1	.1 .1	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.2	
	22+	.0 .0	.0 .0	.1 .1	* .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.2	
	TOT %	* .0	.0 .0	.2 .2	.2 .1	.2 .0	* .0	.0 .0	.0 .0	.0 .0	.0 .0	.5	
2<5	0-3	.0 .0	.0 .0	.0 .0	* .0	* .0	.0 .0	.0 .0	.0 .0	.0 .0	* .0	.1	
	4-10	* .0	* .0	* .1	.2 .1	.1 .1	* .0	* .0	* .0	.0 .0	.0 .0	.5	
	11-21	* .0	* .0	* .1	.1 .1	* .0	* .0	* .0	* .0	.0 .0	.0 .0	.3	
	22+	* .0	* .0	.0 .0	* .0	* .0	* .0	* .0	* .0	.0 .0	.0 .0	.1	
	TOT %	.1 .0	* .0	.2 .2	.4 .1	.1 .1	.1 .0	.1 .0	.1 .0	.0 .0	* .0	1.0	
5<10	0-3	* .0	* .0	* .1	.2 .1	.1 .1	.1 .1	.1 .0	.0 .0	.3 .3	.0 .0	.9	
	4-10	* .1	* .1	* .7	1.7 1.7	1.1 .5	.5 .5	.5 .0	.0 .0	.0 .0	.0 .0	4.6	
	11-21	.1 .0	* .0	* .2	2.5 2.8	.7 .2	.5 .0	.0 .0	.0 .0	.0 .0	.0 .0	6.9	
	22+	* .0	.0 .0	.1 .5	1.0 .1	.1 .1	.2 .0	.0 .0	.0 .0	.0 .0	.0 .0	3.0	
	TOT %	.2 .1	.1 .1	.4 .8	5.7 2.1	.8 1.3	.0 .0	.3 .3	.3 15.4	.0 .0	.0 .0		
10+	0-3	.1 .0	* .1	.3 .9	.9 .6	.5 .5	.2 .0	.0 .0	.0 .0	.0 .0	1.0 .0	3.8	
	4-10	.7 .2	.5 .5	5.4 9.5	6.0 3.2	2.2 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	27.5	
	11-21	.4 .0	* .5	14.6 14.7	3.8 2.3	2.6 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	38.9	
	22+	* .0	* .1	6.5 4.4	.0 .2	.5 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	12.2	
	TOT %	1.2 .3	.3 1.1	26.8 29.4	10.8 6.1	5.6 .0	.0 .0	.0 .0	.0 .0	.0 .0	1.0 .0	82.3	
TOT OBS													6770
TOT PCT		1.5	.5	1.3	32.1	36.0	13.1	7.1	7.0	.0	1.4	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1855-1975

AREA 0018 ALEXANDER BAY SW
30.4S 14.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.4	.1	.7	5.3	12.2	6.0	1.7	1.0	.2	.4	27.8	72.2	1135
06609	.6	.2	1.9	7.2	18.7	8.7	4.0	.9	.3	.3	42.8	57.2	1386
12615	.4	.3	.4	5.0	11.3	6.9	3.1	1.1	.4	.3	29.2	70.8	1426
18621	.2	.2	.5	4.4	9.9	5.2	1.0	.8	.5	.3	22.9	77.1	1116
TOT	21	10	46	281	668	345	129	49	17	15	1581	3482	5063
PCT	.4	.2	.9	5.6	13.2	6.8	2.5	1.0	.3	.3	31.2	68.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.4	.3	.3	.9	17.8	80.2	1767
06609	.5	.2	.4	1.3	14.8	82.9	1706
12615	.7	.0	1.0	1.0	14.6	82.7	1934
18621	.5	.2	.3	.9	14.2	83.9	1474
TOT	35	13	35	71	1059	5668	6881
PCT	.5	.2	.5	1.0	15.4	82.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	.5	1.3	7.3	21.7	70.9	1104
06609	.6	2.7	10.5	33.2	56.3	1358
12615	.4	1.2	6.9	23.4	69.7	1387
18621	.2	.9	5.9	18.0	76.1	1090
TOT	21	77	384	1211	3344	4939
PCT	.4	1.6	7.8	24.5	67.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	*	*	.0	*	.0	.0	.0	.0	4	.1
70/74	.0	.0	*	.1	.1	.1	.1	*	21	.4
65/69	.0	.0	*	.4	.9	1.3	.7	.1	183	3.4
60/64	.0	*	.1	1.2	4.7	11.5	14.4	5.3	1981	37.3
55/59	.0	.0	.1	1.7	8.4	15.9	19.7	11.6	3044	57.3
50/54	.0	.0	.0	.1	.2	.5	.4	.2	79	1.5
TOTAL	1	2	13	183	759	1558	1873	923	5312	100.0
PCT	*	*	.2	3.4	14.3	29.3	35.3	17.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	*	.0	.0	.0	.0
.0	*	*	.1	.2	*	*	*	.0	*
*	*	.1	1.3	1.1	.3	.2	.4	.0	*
.4	.2	.3	13.2	13.3	4.0	2.7	2.7	.0	.4
.7	.2	.8	18.9	21.4	7.7	3.9	3.1	.0	.6
.0	.0	*	.3	.6	.3	.1	.1	.0	*
1.2	.4	1.2	33.9	36.6	12.4	6.9	6.3	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	75	63	61	58	55	53	46	58.0	2401
06609	79	64	62	59	55	53	48	58.6	1990
12615	75	69	66	61	57	55	50	61.1	2633
18621	73	65	63	59	55	53	51	58.9	1799
TOT	79	67	64	59	55	53	46	59.3	8823

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.1	2.3	11.8	24.4	38.5	22.9	82	1336
06609	.0	3.7	13.2	28.1	35.7	19.2	80	1388
12615	.0	6.2	20.1	35.5	29.0	9.3	76	1491
18621	.0	2.4	10.8	27.9	39.3	19.5	81	1192
TOT	1	205	769	1578	1910	944	80	5407

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1855-1975

SEPTEMBER

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	*
14/16	.0	.0	.0	.0	.0	*	*	*	.0	4	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	*	.0	7	*	.1
9/10	.0	.0	.0	.0	.1	.1	.2	.0	.0	17	.0	.3
7/8	.0	.0	.0	*	.1	.7	.2	*	.0	56	.0	1.0
6	.0	.0	*	.1	.3	.7	.0	.0	.0	59	.0	1.1
5	.0	.0	*	.2	1.0	.8	.0	.0	.0	109	*	2.0
4	.0	.0	.1	.4	2.2	.4	*	.0	.0	163	.1	3.0
3	.0	.0	.1	1.0	3.2	.3	.0	.0	.0	244	*	4.5
2	.0	.0	.4	2.7	5.1	.3	.0	.0	.0	452	.1	8.4
1	.0	.0	.4	8.5	4.4	.1	.0	.0	.0	715	.1	13.3
0	.0	.1	.9	15.1	3.3	*	*	*	.0	1038	.2	19.3
-1	.0	.0	1.4	15.6	1.5	.1	.0	.0	.0	992	.3	18.3
-2	.0	.1	2.2	9.6	.6	.0	.0	.0	.0	672	.3	12.3
-3	.0	.0	2.4	4.4	.3	*	.0	.0	.0	380	.2	6.9
-4	*	.1	1.6	1.8	.3	.0	.0	.0	.0	197	.1	3.6
-5	.0	.1	.9	1.0	.1	.0	.0	.0	.0	111	*	2.1
-6	.0	*	.5	.5	*	.0	.0	.0	.0	58	.0	1.1
-7/-8	.0	.1	.5	.2	*	*	.0	.0	.0	46	.0	.9
-9/-10	.0	*	.1	.1	.0	.0	.0	.0	.0	12	.0	.2
-11/-13	.0	*	*	.0	*	.0	.0	.0	.0	5	.0	.1
-20/-22	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	27	615	3281	1196	181	6	1	5340	77	5263	
PCT	*	.5	11.5	61.4	22.4	3.4	.6	.1	100.0	1.4	98.6	

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
1-2	*	.3	.1	.0	.0	.0	.4	*	.2	*	.0	.0	.0	.2
3-4	.0	.2	.2	.0	.0	.0	.4	.0	*	.1	.0	.0	.0	.1
5-6	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	*	.0	.0	*	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.5	.6	.1	.0	.0	1.2	*	.2	.1	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.2	.4	.0	.0	.0	.0	.6
1-2	*	.3	.1	.0	.0	.0	.4	.2	3.3	1.7	.0	.0	.0	5.2
3-4	.0	.2	.3	.0	.0	.0	.5	*	2.4	5.3	.4	.0	.0	8.1
5-6	.0	.0	.1	*	.0	.0	.1	.0	.5	6.4	1.8	.1	.0	8.9
7	.0	.0	.1	*	.0	.0	.1	.0	.1	3.5	2.4	.1	.0	6.1
8-9	.0	.0	.0	.1	.0	.0	.1	.0	*	1.3	1.6	.2	.0	3.1
10-11	.0	.0	*	*	*	.0	.1	.0	.0	.5	1.2	.4	*	2.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	*	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.8	.3	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.6	.6	.1	*	.0	1.4	.4	6.8	19.0	8.7	1.1	*	36.0

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	1.0	.1	.0	.0	.0		1.3	.2	.4	*	.0	.0	.0		.5
1-2	.3	5.5	1.7	.0	.0	.0		7.5	.3	4.3	.5	.0	.0	.0		5.2
3-4	.1	3.9	6.4	.3	.0	.0		10.6	.0	1.6	1.6	.1	.0	.0		3.3
5-6	.1	.7	6.5	.9	.0	.0		8.2	*	.3	1.4	.1	.0	.0		1.8
7	.0	.2	3.0	1.2	*	.0		4.5	*	.1	.3	.1	.0	.0		.6
8-9	.0	.1	.5	1.0	*	.0		1.6	*	.0	.1	.1	.0	.0		.2
10-11	.0	*	.4	.9	.1	.0		1.4	.0	.0	*	*	.0	.0		.1
12	.0	.0	.1	.4	*	.0		.5	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.1	.2	.1	.0		.4	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	*	.0	.0		*	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	*	.0		*	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	11.4	18.6	4.9	.4	.0		36.1	.5	6.0	4.0	.4	.0	.0		11.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.4	*	.0	.0	.0		.7	*	.3	*	.0	.0	.0		.3	
1-2	.2	1.8	.2	.0	.0	.0		2.2	.1	.9	.3	.0	.0	.0		1.4	
3-4	.0	1.1	1.1	*	.0	.0		2.2	*	.5	1.3	*	.0	.0		1.9	
5-6	*	.2	.7	.0	.0	.0		.9	.0	.2	.9	.1	.0	.0		1.2	
7	.0	*	.2	*	.0	.0		.2	.0	.0	.4	.3	.0	.0		.7	
8-9	.0	.0	.1	.1	.0	.0		.2	.0	.0	.1	.3	.0	.0		.3	
10-11	.0	.0	.0	*	.0	.0		*	.0	.0	.0	.1	.0	.0		.1	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	*	.0	.0	.0		*	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	3.6	2.4	.2	.0	.0		6.6	.1	2.0	3.0	.8	.0	.0		5.9	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	2.6	.1	.0	.0	.0	5.2	
1-2	1.4	16.7	4.6	.0	.0	.0	22.7	
3-4	.1	9.8	16.1	.8	.0	.0	26.8	
5-6	.1	1.9	16.0	2.9	.1	.0	21.1	
7	*	.4	7.5	4.0	.1	.0	12.1	
8-9	.0	.1	2.1	3.0	.2	.0	5.4	
10-11	.0	*	1.0	2.3	.4	*	3.8	
12	.0	.0	.2	.8	.1	.0	1.0	
13-16	.0	.0	.1	1.0	.4	.0	1.5	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	*	.0	*	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	31.5	47.8	15.1	1.5	*	100.0	3447

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	3.0	5.8	5.4	3.3	1.7	1.0	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	907	5
6-7	*	.3	3.5	5.3	6.4	4.6	3.9	2.1	1.4	.3	.1	*	*	*	.0	.0	.0	.0	.0	1187	7
8-9	*	.3	1.4	3.4	5.0	3.8	3.3	1.8	3.0	.4	.1	*	*	.0	.0	.0	.0	.0	.0	957	8
10-11	.0	.1	.6	.9	1.9	2.8	2.1	1.5	1.2	.6	.2	*	*	.0	.0	.0	.0	.0	.0	507	9
12-13	.0	.0	.2	.4	1.0	.7	1.2	.9	.8	.2	.1	*	*	.0	.0	.0	.0	.0	.0	236	10
>13	.0	.0	.0	.1	.3	.2	.4	.2	.4	.2	*	.1	.0	.0	.0	.0	.0	.0	.0	89	11
INDET	.5	.6	1.3	1.4	1.4	1.3	.9	.3	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	353	6
TOTAL	52	183	546	714	816	640	544	295	321	85	25	10	4	1	0	0	0	0	0	4236	7
PCT	1.2	4.3	12.9	16.9	19.3	15.1	12.8	7.0	7.6	2.0	.6	.2	.1	*	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
N	.0	.8	2.0	.0	.0	.0	.0	2.8	.0	.0	5.6	1.2	.0	.0	90.4	
NE	.0	.0	8.3	.0	.0	.0	.0	8.3	6.7	.0	.0	.0	6.7	.0	78.3	
E	3.6	.0	.0	.0	.0	.0	.0	3.6	1.5	.0	.0	2.0	2.0	.0	90.8	
SE	.2	.1	.3	.0	.0	.0	.0	.6	.4	.3	.8	.1	1.0	.0	96.7	
S	.2	.1	.6	.0	.0	.0	.0	.8	.7	.5	1.6	.1	1.8	.0	94.5	
SW	.4	.7	1.1	.0	.0	.0	.0	2.2	1.5	.3	1.9	.1	1.1	.1	92.7	
W	.5	1.9	1.7	.0	.0	.0	.0	4.1	2.7	1.3	1.3	.0	.6	.0	90.0	
NW	2.9	1.6	2.1	.0	.0	.0	.0	6.5	3.1	.7	2.9	.1	1.1	.0	85.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26.2	.0	11.9	.0	61.9	
TOT PCT	.4															
TOT OBS:	5923															
		.4	.8	.0	.0	.0	.0	1.5	1.0	.5	1.7	.1	1.5	*	93.8	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	DUST SNOW	NO SIG WEA
00003	.3	.3	1.2	.0	.0	.0	.0	1.9	1.1	1.7	1.2	.1	.7	.1		93.3
06009	.6	.6	1.0	.0	.0	.0	.0	2.1	1.1	.1	1.6	.1	1.8	.0		93.2
12015	.3	.3	.5	.0	.0	.0	.0	1.1	.9	.0	2.2	.2	1.9	.0		93.7
18021	.3	.3	.4	.0	.0	.0	.0	1.1	.8	.3	1.7	.0	1.3	.0		94.7
TOT PCT	.4															
TOT OBS: 5997	.4	.4	.8	.0	.0	.0	.0	1.6	1.0	.5	1.7	.1	1.5	*		93.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.1	.5	.4	.1	*	.0		1.2	11.7		1.1	1.6	1.0	.0	1.5	1.1	1.0	.0
NE	.1	.2	.1	.0	.0	.0		.3	7.5		.2	.2	.6	.0	.3	.0	.1	.0
E	.1	.3	.2	.1	.0	.0		.7	9.6		.4	.9	1.0	1.9	1.0	.4	.5	1.1
SE	.3	4.9	13.0	7.4	.8	*		26.4	17.9		25.7	24.5	29.6	25.0	28.4	23.8	23.4	18.8
S	1.0	13.3	21.0	6.1	.6	*		42.0	14.5		42.4	41.0	39.8	43.9	41.0	42.3	45.3	49.2
SW	.7	8.6	5.6	.8	.1	.0		15.8	10.9		17.3	17.0	15.0	17.5	14.0	17.8	16.1	18.5
W	.5	4.0	2.3	.5	*	.0		7.3	10.7		7.5	8.7	6.9	7.8	6.5	7.3	7.9	8.4
NW	.3	2.5	2.0	.3	.1	.0		5.1	11.5		4.6	4.7	4.7	3.9	6.0	6.6	5.0	3.9
VAR	.0	.0	.0	.0	.0	.0		1.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0		.7	1.4	1.3	.0	1.3	.6	.8	.0
TOT OBS	377	3068	3997	1371	140	7	8960		14.2		1769	643	1929	90	2106	620	1714	89
TOT PCT	4.2	34.2	44.6	15.3	1.6	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OPS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.4	.5	.2	.1	*			1.2	11.7		1.3	1.0	1.4	.9
NE	.1	.2	*	.0	.0			.3	7.5		.2	.6	.2	.1
E	.3	.3	.1	.0	.0			.7	9.6		.5	1.0	.9	.5
SE	1.6	10.0	11.5	3.2	.2			26.4	17.9		25.4	29.4	27.3	23.1
S	4.8	21.9	13.2	2.1	.1			42.0	14.5		42.0	40.0	41.3	45.5
SW	3.9	9.3	2.3	.2	*			15.8	10.9		17.2	15.1	14.8	16.2
W	2.1	4.1	.9	.2	.0			7.3	10.7		7.9	7.0	6.7	7.9
NW	1.3	2.9	.9	.1	*			5.1	11.5		4.6	4.7	6.1	4.9
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.0							1.0	.0		.9	1.2	1.2	.8
TOT OBS	1390	4403	2610	536	21	8960			14.2		2412	2019	2726	1803
TOT PCT	15.5	49.1	29.1	6.0	.2			100.0			100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.9	3.2	35.0	43.2	14.8	1.9	*	14.1	100.0	2412
06009	1.2	3.3	34.1	45.2	14.8	1.3	*	14.1	100.0	2019
12015	1.2	3.6	32.5	45.4	15.6	1.6	.1	14.2	100.0	2726
18021	.8	2.3	34.9	44.6	16.1	1.2	.1	14.3	100.0	1803
TOT	93	284	3068	3997	1371	140	7	14.2		8960
PCT	1.0	3.2	34.2	44.6	15.3	1.6	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	.2	.5		5.9
NE	.1	*	*	*		4.0
E	.3	.2	.3	.1		3.9
SE	11.7	5.3	7.2	4.0		3.6
S	14.4	8.2	12.4	7.8		4.1
SW	4.0	3.6	4.3	2.8		4.4
W	1.8	1.5	2.2	1.5		4.7
NW	.9	.9	1.4	1.3		5.2
VAR	.0	.0	.0	.0		.0
CALM	.2	.1	.1	.3		5.2
TOT OBS	1683	991	1410	918	5002	4.1
TOT PCT	33.6	19.8	28.2	18.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	7500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
*	*	*	.1	.2	.1	*	*	.0	.0	.3	
.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.1	
.0	.0	.0	1.6	3.6	2.0	1.0	.3	.2	.1	19.0	
.1	.1	.4	3.4	6.3	3.7	1.3	.3	.2	.3	26.7	
.1	.3	1.3	1.9	1.3	.5	.1	*	.1	.1	9.0	
.0	.1	.1	.6	1.0	.6	.3	.1	*	*	4.1	
*	.1	.6	.8	.6	.2	*	*	.0	.0	2.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	.1	*	.0	*	.0	*	*	.1	
34	12	58	397	701	417	167	43	21	31	3121	5002
.7	.2	1.2	7.9	14.0	8.3	3.3	.9	.4	.6	62.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.2	1.6	1.9	1.9	1.9	1.9	1.9	1.9
= OR >3500	4.2	5.1	5.2	5.2	5.2	5.2	5.2	5.2
= OR >2000	11.5	13.4	13.6	13.6	13.6	13.6	13.6	13.6
= OR >1000	23.7	27.2	27.6	27.6	27.6	27.6	27.6	27.6
= OR >600	29.6	35.0	35.5	35.5	35.6	35.6	35.6	35.6
= OR >300	30.2	35.9	36.7	36.7	36.7	36.7	36.7	36.8
= OR >150	30.3	36.1	36.9	37.0	37.0	37.0	37.0	37.0
= OR >0	30.4	36.2	37.1	37.1	37.2	37.4	37.6	37.7
TOTAL	1535	1832	1876	1877	1880	1881	1901	1904

TOTAL NUMBER OF OBS: 5054

PCT FREQ NH <5/8: 62.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
17.7	12.7	12.3	11.3	7.8	5.6	7.3	9.1	15.8	.5	5311

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	* .0	.0	.1	.2	.1	.1	*	.0	.1	.7		
	TOT %	* .0	.0	.1	.2	.1	.1	*	.0	.1	.7		
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	* .0	.0	*	.1	.0	.0	*	.0	.0	.1		
	TOT %	* .0	.0	*	.1	.0	.0	*	.0	.0	.1		
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	*	.1	.1	.0	.0	.0	.0	.2		
	TOT %	.0	.0	*	.1	.1	.0	.0	.0	.0	.2		
2<5	PCP	.0	.0	*	*	.1	.0	*	.1	.0	.2		
	NO PCP	* *	*	.2	.5	.2	.1	.1	.0	*	1.1		
	TOT %	* *	*	.2	.5	.2	.1	.2	.0	*	1.3		
5<10	PCP	*	*	.0	.1	.1	.2	.1	.1	.0	.7		
	NO PCP	.3	*	.1	4.4	7.1	2.1	.8	.7	.0	15.7		
	TOT %	.3	*	.1	4.5	7.2	2.3	.9	.8	.0	16.3		
10+	PCP	*	*	*	*	.2	.2	.2	.1	.0	.7		
	NO PCP	.7	.2	.7	22.9	34.2	12.4	5.8	3.5	.0	80.7		
	TOT %	.7	.2	.7	22.9	34.4	12.5	6.0	3.7	.0	81.3		
TOT OBS													5919
TOT PCT													
1.1 .3 .8 27.9 42.5 15.1 7.0 4.7 .0 .7 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.1	.1	
	4-10	* .0	.0	.0	*	.1	.1	*	*	.0	.3		
	11-21	* .0	.0	.1	*	.1	*	*	*	.0	.2		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	* .0	.0	.1	.1	.1	.1	*	*	.0	.1	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	* .0	.0	*	*	.0	.0	.0	*	.0	.1		
	11-21	.0	.0	.0	.0	.0	.0	.0	*	.0	*		
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	*		
	TOT %	* .0	.0	*	*	.0	.0	*	.0	.0	.1		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	*	.0	*	*	.0	.1		
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.1		
	22+	.0	.0	.0	*	.0	.0	.0	.0	.0	.1		
	TOT %	.0	.0	.1	.1	*	*	*	*	.0	.2		
2<5	0-3	.0	.0	.0	.0	*	*	*	*	.0	.1	.2	
	4-10	* *	*	.1	.2	.1	*	*	*	.0	.5		
	11-21	* *	.0	.1	.2	.1	*	*	*	.0	.5		
	22+	.0	.0	*	.1	.1	.0	*	.0	.0	.2		
	TOT %	* *	*	.2	.5	.2	.1	.2	.0	.1	1.4		
5<10	0-3	*	*	.0	*	.2	.1	.1	*	.0	.2	.7	
	4-10	.1	.1	*	.9	2.0	1.2	.5	.4	.0	5.1		
	11-21	.1	.0	*	1.8	3.3	.9	.3	.3	.0	6.7		
	22+	* .0	.0	1.4	1.5	.1	*	.1	.0	.0	3.2		
	TOT %	.3	.1	.1	4.2	7.0	2.2	.9	.8	.0	15.8		
10+	0-3	*	*	.1	.2	.7	.6	.4	.2	.0	.5	2.6	
	4-10	.3	.1	.2	3.7	11.7	7.5	3.3	1.8	.0	28.7		
	11-21	.2	*	.2	11.2	18.2	4.2	1.6	1.6	.0	37.4		
	22+	.1	.0	*	7.1	4.7	.6	.5	.2	.0	13.3		
	TOT %	.7	.2	.6	22.3	35.2	12.9	5.8	3.8	.0	81.9		
TOT OBS													6864
TOT PCT													
1.1 .3 .7 26.9 43.1 15.5 6.9 4.8 .0 .8 100.0													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.7	1.6	7.9	13.6	9.3	2.3	1.0	.3	.3	37.5	62.5	1151
06009	.9	.1	1.5	9.2	17.3	10.1	4.3	.9	.2	.8	45.4	54.6	1396
12015	.7	.1	.6	5.8	11.0	6.6	3.0	.7	.5	.8	29.7	70.3	1484
18021	.4	.2	1.0	8.3	13.0	6.8	3.4	.8	.6	.3	34.8	65.2	1161
TOT	34	13	60	402	711	425	171	43	21	31	1911	3281	5192
PCT	.7	.3	1.2	7.7	13.7	8.2	3.3	.8	.4	.6	36.8	63.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.0	.1	1.1	18.0	80.4	1754
06009	.8	.1	.2	1.6	14.8	82.4	1711
12015	.6	.2	.5	1.2	14.9	82.5	2015
18021	.6	.1	.1	1.6	15.4	82.3	1460
TOT	42	8	16	95	1095	5684	6940
PCT	.6	.1	.2	1.4	15.8	81.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	2.8	11.1	26.9	62.0	1151
06009	1.0	2.7	12.9	33.8	53.3	1366
12015	.7	1.5	8.2	22.8	69.0	1437
18021	.4	1.7	11.3	25.2	63.5	1120
TOT	34	109	547	1375	3132	5054
PCT	.7	2.2	10.8	27.2	62.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	*	.0	.0	*	.0	.0	2	*
75/79	.0	.0	*	*	*	.0	*	.0	5	.1
70/74	.0	.0	.0	.1	.3	.3	*	*	40	.8
65/69	.0	*	.1	.5	2.0	2.9	2.6	.4	446	8.4
60/64	.0	.0	.2	1.4	8.1	17.3	27.8	12.3	3311	62.1
55/59	.0	.0	*	.8	4.5	8.8	8.9	5.0	1497	28.1
50/54	.0	.0	.0	.0	*	.1	.3	.2	32	.6
TOTAL	0	1	19	152	799	1564	1845	953	5333	100.0
PCT	.0	*	.4	2.9	15.0	29.3	34.6	17.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	*	*	.0	.0	.0	.0
75/79	.0	.0	.0	*	*	*	.0	.0	.0	.0
70/74	.0	*	.0	*	.3	.1	*	.1	.0	.0
65/69	.1	*	.1	2.4	3.4	1.2	.7	.4	.0	*
60/64	.7	.1	.5	17.1	26.8	9.0	4.3	3.1	.0	.5
55/59	.2	*	.2	7.9	11.5	4.7	2.1	1.2	.0	.2
50/54	*	.0	.0	.1	.3	.2	.0	.0	.0	.0
TOTAL	1.1	.2	.8	27.7	42.4	15.3	7.0	4.8	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	65	63	60	56	54	48	59.5	2412
06009	80	67	64	60	57	54	51	60.5	2010
12015	81	71	68	63	59	56	50	63.0	2698
18021	73	67	64	61	57	55	53	60.6	1793
TOT	81	69	66	61	57	54	48	61.0	8913

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.5	11.1	27.5	37.4	22.5	82	1298		
06009	.0	3.8	13.4	27.8	34.7	20.4	80	1384		
12015	.0	5.3	23.6	32.5	28.7	9.9	76	1538		
18021	.0	1.9	9.7	28.8	39.0	20.6	81	1180		
TOT	0	175	807	1582	1866	970	80	5400		

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PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1854-1975AREA 0018 ALEXANDER BAY SW
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FUG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	*	4	.0	.1
14/16	.0	.0	.0	.0	*	.1	*	.0	.0	6	*	.1
11/13	.0	.0	.0	.1	*	.2	.2	.0	.0	24	*	.4
9/10	.0	.0	*	*	.2	.2	.0	.0	.0	22	.0	.4
7/8	.0	.0	.1	.2	1.0	.4	.0	.0	.0	93	*	1.7
6	.0	.0	.1	.4	.7	.1	.0	.0	.0	68	*	1.2
5	.0	.1	.1	.9	1.5	.1	.0	.0	.0	141	*	2.6
4	.0	.1	.2	1.9	1.6	.0	.0	.0	.0	202	.1	3.6
3	.0	.1	.6	3.8	1.5	.0	.0	.0	.0	320	.1	5.8
2	*	.4	1.1	7.3	.8	.0	.0	.0	.0	516	.1	9.5
1	*	.1	3.9	11.3	.4	*	.0	.0	.0	855	.4	15.5
0	.1	.3	9.1	10.0	.2	*	.0	.0	.0	1050	.4	19.3
-1	*	.3	11.8	5.2	.1	.0	.0	.0	.0	935	.2	17.1
-2	.0	.2	7.5	1.7	*	.0	.0	.0	.0	503	.1	9.3
-3	.0	.4	4.8	.7	*	.0	.0	.0	.0	321	.1	5.9
-4	.0	.4	2.2	.3	.0	.0	.0	.0	.0	156	.1	2.8
-5	*	.3	.9	.1	.0	.0	.0	.0	.0	75	*	1.4
-6	.0	.2	.5	.1	.0	.0	.0	.0	.0	41	*	.7
-7/-8	*	.2	.2	.1	.0	.0	.0	.0	.0	25	.0	.5
-9/-10	.0	*	.1	.0	.0	.0	.0	.0	.0	5	.0	.1
-11/-13	.0	*	*	*	.0	.0	.0	.0	.0	4	.0	.1
-14/-16	*	.0	*	*	.0	.0	.0	.0	.0	2	.0	*
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	14		2328		426		12		1	5380	94	5286
PCT	.3	3.0	43.3	44.2	7.9	1.0	.2	.1	*	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.2	*	.0	.0	.3	.3	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.1	.2	.0	.0	.0	.4	.0	*	*	.0	.0	.0	.1
5-6	.0	*	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	*	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	*	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.4	.2	.0	.0	1.1	.0	.2	*	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	*	.0	.0	.0	.0	.1	*	.5	*	.0	.0	.0	.6
1-2	.1	.1	*	.0	.0	.0	.2	.1	2.2	1.3	.0	.0	.0	3.6
3-4	.0	.1	.1	.0	.0	.0	.1	*	1.3	3.9	.6	.0	.0	5.8
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.5	4.4	1.2	.1	.0	6.1
7	.0	.0	*	.1	.0	.0	.1	.1	.1	2.4	2.1	.1	.0	4.7
8-9	.0	.0	*	*	.0	.0	*	.0	*	.9	1.6	.2	*	2.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.5	.1	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.3	.2	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.5	.1	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.3	.1	.0	.0	.8	.2	4.6	13.3	8.1	.8	*	27.0

PERIOD: (OVER-ALL) 1963-1975

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AREA 0018 ALEXANDER BAY SW
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	*	.0	.0	.0	1.5	.2	.6	*	.0	.0	.0	.8
1-2	.4	7.9	2.0	.0	.0	.0	10.2	.3	4.7	.7	.0	.0	.0	5.7
3-4	.1	4.2	7.9	.5	.0	.0	12.7	.1	2.3	2.0	*	.0	.0	4.4
5-6	.0	1.0	7.3	1.7	.0	.0	10.0	*	.5	1.4	.2	.0	.0	2.1
7	.0	.1	3.5	1.6	.0	.0	5.2	.0	.2	.8	.2	.0	.0	1.2
8-9	.0	*	1.4	.6	.1	.1	2.1	.0	*	.3	.1	.0	.0	.5
10-11	.0	.0	.3	.9	.1	.0	1.3	.0	.0	.3	.1	.0	.0	.1
12	.0	.0	.1	.3	.1	.0	.4	.0	*	*	.0	.0	.0	*
13-16	.0	.0	.1	.2	.1	.0	.4	.0	.0	*	*	.0	.0	.1
17-19	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	*	.0	.0	.0	*	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	14.4	22.7	5.8	.3	.1	44.0	.5	8.3	5.3	.7	.0	.0	14.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.3	.0	.0	.0	.0	.4	*	.1	.0	.0	.0	.0	.1	
1-2	.2	1.9	.3	.0	.0	.0	2.4	.1	1.2	.3	.0	.0	.0	1.6	
3-4	*	1.0	.7	.1	.0	.0	1.8	.0	.9	.7	*	.0	.0	1.6	
5-6	*	.2	.7	.3	.0	.0	1.2	.0	.1	.6	.1	.0	.0	.8	
7	.0	.0	.3	.1	.0	.0	.4	.0	.0	.2	*	.0	.0	.2	
8-9	.0	.0	.2	.1	.0	.0	.2	.0	*	.1	.1	.0	.0	.2	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*	
12	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
17-19	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.5	2.1	.7	.0	.0	6.6	.1	2.3	1.8	.3	.0	.0	4.5	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.9	3.0	.1	.0	.0	.0	5.0	
1-2	1.2	18.4	4.7	.0	.0	.0	24.2	
3-4	.2	9.9	15.4	1.3	.0	.0	26.7	
5-6	*	2.2	14.6	3.4	.1	.0	20.3	
7	.1	.3	7.1	4.3	.1	.0	11.8	
8-9	.0	.1	2.8	2.6	.3	.1	5.9	
10-11	.0	.0	.6	2.6	.2	.0	3.5	
12	.0	.1	.1	.6	.2	.0	1.0	
13-16	.0	*	.2	.8	.1	.0	1.2	
17-19	.0	.0	*	.1	*	.0	.1	
20-22	.0	.0	*	.1	.0	.0	.1	
23-25	.0	.0	*	.0	*	.0	.1	
26-32	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	34.0	45.7	15.8	1.1	.1	100.0	3501

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	3.5	6.3	4.5	3.9	2.0	1.0	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	983	5
6-7	.0	.6	3.1	6.5	6.1	3.3	3.0	1.2	1.7	.5	.1	*	*	*	.0	.0	.0	.0	.0	1154	7
8-9	*	.1	1.0	3.3	4.5	4.7	3.8	1.7	2.2	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	1011	9
10-11	.0	.2	.2	1.3	1.8	1.6	2.1	.9	1.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	468	10
12-13	.0	.0	.5	.3	1.0	1.0	1.0	.6	1.1	.3	.1	*	.1	.0	.0	.0	.0	.0	.0	261	10
>13	.0	.0	.0	.5	.2	.4	.3	.3	.6	*	.1	*	.1	.0	.0	.0	.0	.0	.0	117	11
INDET	.7	.8	1.1	1.6	1.9	1.4	.7	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	410	6
TOTAL	49	238	565	793	855	626	528	240	353	91	37	18	10	1	0	0	0	0	0	4404	7
PCT	1.1	5.4	12.8	18.0	19.4	14.2	12.0	5.4	8.0	2.1	.8	.4	.2	*	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WJ PCPN	FUG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	
N	4.2	4.0	1.1	.0	.0	.0	.0	9.9	3.8	.0	7.6	1.1	2.7	.0	.0	74.8
NE	6.2	.0	6.2	.0	.0	.0	.0	6.2	.0	.0	9.2	.0	.0	.0	.0	84.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.0	5.6	.0	.0	90.7
SE	.2	.2	.4	.0	.0	.0	.0	.7	.3	.3	.8	.0	1.4	.1	.1	96.3
S	.2	.4	.4	.0	.0	.0	.0	.9	.7	.4	.9	.1	2.1	.1	.1	94.8
SW	.2	.9	.8	.0	.0	.0	.0	2.0	1.6	.3	2.0	.3	.4	.0	.0	93.4
W	1.7	1.5	2.3	.0	.0	.0	.0	5.5	2.8	.7	2.3	.0	.0	.0	.0	88.7
NW	3.5	.0	3.3	.0	.0	.0	.0	6.8	2.1	1.3	4.4	.7	1.2	.0	.0	84.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.1	4.2	.0	10.4	.0	.0	81.3
TOT PCT	.4	.5	.6	.0	.0	.0	.0	1.5	.9	.4	1.3	.1	1.6	.1	.1	94.1
TOT OBS:	6118															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WJ PCPN	FUG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	
0000	.5	.6	.7	.0	.0	.0	.0	1.7	.8	1.2	1.1	.1	.6	.1	.1	94.4
0600	.4	.6	.9	.0	.0	.0	.0	2.0	1.2	.1	1.7	.2	2.1	.0	.0	92.7
1200	.3	.3	.5	.0	.0	.0	.0	1.1	.7	.1	1.4	.2	2.3	.1	.1	94.2
1800	.5	.4	.5	.0	.0	.0	.0	1.4	.9	.3	1.0	.1	1.4	.1	.1	94.8
TOT PCT	.4	.5	.6	.0	.0	.0	.0	1.5	.9	.4	1.3	.1	1.6	.1	.1	94.0
TOT OBS:	6221															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.6	.2	*	.0	.0		1.1	8.6		1.0	1.4	1.3	1.0	1.3	.5	.6	.0
NE	.1	.2	*	.0	.0	.0		.3	7.0		.3	.1	.3	.5	.3	.2	.3	.0
E	.1	.2	.2	*	.0	.0		.5	9.7		.2	.6	.9	.5	.8	.4	.2	.0
SE	.4	3.9	13.7	9.3	1.0	*		28.2	18.9		29.0	26.0	31.0	38.6	29.8	23.7	24.2	35.1
S	.8	11.9	23.8	8.7	.8	*		45.9	15.7		46.0	44.7	44.5	44.2	44.7	44.7	49.3	53.4
SW	.6	7.3	5.0	.9	*	.0		13.8	11.1		13.9	16.0	12.1	11.1	11.8	17.9	16.0	7.2
W	.4	3.6	1.7	.3	*	.0		6.0	9.7		5.8	6.7	4.9	3.0	6.7	7.4	6.0	2.9
NW	.2	1.8	1.1	.2	*	.0		3.3	10.6		2.6	3.2	3.6	1.0	4.0	4.8	2.8	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0		1.1	1.3	1.5	.0	.6	.5	.6	.0
TOT OBS	349	2753	4263	1809	169	2	9345		15.2		1841	695	1962	99	2158	666	1837	87
TOT PCT	3.7	29.5	45.6	19.4	1.8	*		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.5	.5	.1	*	.0			1.1	8.6		1.2	1.2	1.2	.6
NE	.1	.1	*	.0	.0			.3	7.0		.2	.3	.3	.2
E	.2	.2	.1	*	.0			.5	9.7		.3	.9	.7	.2
SE	1.4	8.9	13.7	4.0	.1			28.2	18.9		28.2	31.3	28.4	24.7
S	4.3	20.8	17.5	3.2	.0			45.9	15.7		45.6	44.5	44.7	49.5
SW	3.3	7.8	7.6	.2	.0			13.8	11.1		14.5	12.0	13.3	15.6
W	2.1	3.1	.7	.1	*			6.0	9.7		6.0	4.8	6.8	5.8
NW	1.0	1.8	.5	*	*			3.3	10.6		2.8	3.5	4.2	2.7
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	.9							.9	.0		1.2	1.5	.6	.6
TOT OBS	1297	4033	3291	705	9345			19	15.2		2536	2061	2824	1924
TOT PCT	13.9	43.2	35.2	7.5	.2			100.0			100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
00003	1.2	2.6	30.6	45.0	18.5	2.1	.0	15.0	2536
06009	1.5	3.4	29.7	44.6	19.4	1.9	.0	15.0	2061
12015	.6	3.2	29.0	46.9	18.8	1.6	*	15.1	2824
18021	.6	1.9	28.8	45.7	21.3	1.6	.1	15.7	1924
TOT	.87	2.62	27.53	42.63	18.09	1.69	2	15.2	9345
PCT	.9	2.8	29.5	45.6	19.4	1.8	*	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & Obscd	TOTAL OBS	MEAN CLOUD COVER
N	.2	.1	.2	.4	5.2	
NE	.1	*	*	.1	4.8	
E	.1	.1	.1	.1	4.2	
SE	14.9	6.2	8.4	3.1	3.3	
S	21.2	8.6	11.4	5.8	3.4	
SW	3.1	2.0	3.6	2.2	4.6	
W	1.0	.7	1.7	1.2	5.1	
NW	.6	.4	1.0	.7	5.2	
VAR	.0	.0	.0	.0	.0	
CALM	.2	*	.1	.2	4.4	
TOT OBS	2101	916	1348	697	5062	3.7
TOT PCT	41.5	18.1	26.6	13.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
*	*	*	.1	.2	.1	*	*	.0	.0	.4	
*	.0	.0	*	.1	*	.0	*	.0	.0	.1	
.0	.0	.0	*	.1	.1	*	.0	.0	*	.3	
.1	*	.2	1.6	4.1	2.2	.6	.2	.1	.1	23.2	
.1	.1	.3	2.7	6.0	3.1	1.1	.4	.2	.2	33.1	
*	*	.3	.7	1.7	1.3	.3	.1	*	.1	6.4	
*	.1	.1	.5	.8	.4	.2	.1	.0	*	2.4	
*	*	.1	.3	.5	.3	.2	*	*	.0	1.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	.0	.0	.1	.1	*	*	.0	*	.0	.3	
16	13	48	295	681	377	127	43	18	26	3418	5062
.3	.3	.9	5.8	13.5	7.4	2.5	.8	.4	.5	67.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	.7	.8	.9	.9	.9	.9	.9	.9
* OR >5000	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	3.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2
* OR >2000	10.0	11.5	11.7	11.7	11.7	11.7	11.7	11.7
* OR >1000	21.3	24.7	25.1	25.2	25.2	25.2	25.2	25.2
* OR >600	25.7	30.3	31.0	31.1	31.1	31.1	31.1	31.1
* OR >300	26.1	31.1	32.0	32.0	32.0	32.0	32.0	32.0
* OR >150	26.2	31.2	32.2	32.3	32.3	32.3	32.3	32.3
* OR >0	26.2	31.3	32.3	32.4	32.4	32.4	32.6	32.6
TOTAL	1342	1602	1654	1656	1658	1660	1666	1666

TOTAL NUMBER OF OBS: 5117

PCT FREQ NH <5/8: 67.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	Obscd	TOTAL OBS
23.3	14.2	12.4	9.6	7.5	5.2	6.9	8.7	12.1	.2	5389

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	NO PCP	.1	*	*	*	.1	*	*	*	.0	*	*	
	TOT %	.1	*	*	*	.1	*	*	*	.0	*	*	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	*	*	.0	.1	.0	.0	.2	
	TOT %	.0	.0	.0	.1	*	*	.0	.1	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.2	*	*	.0	.0	*	.3	
	TOT %	.0	.0	.0	.1	.2	*	*	.0	.0	*	.3	
2<5	PCP	*	.0	.0	.1	.1	.1	.1	.1	.0	.0	.4	
	NO PCP	*	*	.0	.3	.4	.2	.1	.1	.0	*	1.2	
	TOT %	.1	*	.0	.3	.6	.2	.2	.1	.0	*	1.5	
5<10	PCP	.1	*	.0	.1	.2	.1	.2	.1	.0	.0	.8	
	NO PCP	.4	*	.1	4.3	7.6	2.0	.8	.6	.0	.1	16.0	
	TOT %	.5	.1	.1	4.4	7.8	2.2	1.0	.7	.0	.1	16.9	
10+	PCP	*	.0	.0	.1	.1	*	*	*	.0	.0	.3	
	NO PCP	.5	.2	.3	25.9	38.1	9.1	3.7	2.1	.0	.6	80.5	
	TOT %	.5	.2	.3	26.0	38.2	9.1	3.7	2.1	.0	.6	80.7	
TOT OBS													6109
TOT PCT		1.1	.3	.4	30.9	46.9	11.6	4.9	3.1	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
	4-10	*	*	*	*	*	*	.0	*	.0	*	.1	
	11-21	.0	.0	.0	*	*	.0	*	*	.0	*	.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	*	*	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	*	*	.0	.1	.0	.0	.2	
1<2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	*	*	*	.0	.0	*	*	
	11-21	.0	.0	.0	*	.2	*	*	.0	.0	*	.3	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	
	TOT %	.0	.0	.0	.1	.2	*	*	.0	.0	*	.4	
2<5	0-3	.0	.0	.0	*	*	*	.1	.0	.0	*	.2	
	4-10	.1	*	.0	.2	.3	.1	.1	.1	.0	.8	.8	
	11-21	*	.0	.0	.1	.2	.1	*	*	.0	.5	.5	
	22+	*	.0	.0	*	.1	*	*	*	.0	.2	.2	
	TOT %	.1	*	.0	.3	.6	.3	.3	.1	.0	*	1.7	
5<10	0-3	*	.0	*	.1	.2	.2	.1	*	.0	.1	.8	
	4-10	.2	*	*	.6	2.0	1.2	.6	.4	.0	5.0	7.0	
	11-21	.1	*	*	1.9	4.0	.6	.2	.2	.0	3.7	16.6	
	22+	.0	.0	*	1.7	1.7	.2	*	*	.0			
	TOT %	.4	.1	.1	4.2	7.9	2.2	.9	.7	.0	.1	16.6	
10+	0-3	.1	.1	.1	.2	.6	.5	.2	.1	.0	.7	2.5	
	4-10	.3	.1	.1	3.3	10.2	6.0	2.6	1.2	.0	23.9	37.3	
	11-21	.1	*	.1	12.4	19.9	3.0	1.0	.8	.0	17.2	80.9	
	22+	.0	.0	*	9.2	7.5	.4	.1	*	.0			
	TOT %	.5	.2	.3	25.1	38.2	9.8	4.0	2.2	.0	.7	80.9	
TOT OBS													7145
TOT PCT		1.0	.3	.4	29.8	47.0	12.3	5.2	3.1	.0	.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.3	.3	1.4	6.8	14.3	8.3	2.0	.7	.3	.8	35.2	64.8	1175
06009	.3	.3	1.2	7.9	17.1	9.9	3.7	1.4	.6	.4	42.9	57.1	1387
12015	.3	.1	.4	3.4	9.6	6.0	2.3	.8	.3	.5	23.6	76.4	1494
18021	.3	.3	.7	5.0	11.9	4.8	1.6	.4	.1	.3	25.5	74.5	1221
TOT	16	13	49	302	693	382	130	44	18	26	1673	3604	5277
PCT	.3	.2	.9	5.7	13.1	7.2	2.5	.8	.3	.5	31.7	68.3	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.2	.3	1.8	17.7	80.0	1828
06009	.6	.2	.3	2.1	16.4	80.5	1755
12015	.1	.3	.5	1.6	16.6	80.8	2099
18021	.3	.1	.4	1.4	16.2	81.7	1566
TOT	21	14	26	125	1212	5850	7248
PCT	.3	.2	.4	1.7	16.7	80.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.4	2.2	10.2	26.7	63.0	1133
06009	.3	1.8	11.5	33.4	55.2	1349
12015	.3	.8	5.2	19.3	75.6	1452
18021	.3	1.4	7.3	19.4	73.4	1183
TOT	15	77	432	1262	3423	5117
PCT	.3	1.5	8.4	24.7	66.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	*	*	.0	.0	.0	2	*
75/79	.0	.0	*	.1	.1	.1	*	.0	15	.3
70/74	.0	.0	*	.2	1.0	.7	.4	.1	133	2.5
65/69	.0	.0	.1	.8	3.3	8.0	8.5	3.2	1281	23.9
60/64	.0	.0	.1	1.1	6.2	18.7	27.6	14.1	3634	67.8
55/59	.0	.0	*	.2	.8	1.3	1.6	1.3	286	5.3
50/54	.0	.0	.0	.0	*	*	.1	.1	9	.2
TOTAL	0	0	9	127	613	1548	2050	1013	5360	100.0
PCT	.0	.0	.2	2.4	11.4	28.9	38.2	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	*	.0	.0	.0	.0	.0
75/79	.0	.0	*	.1	.2	*	.0	.0	.0	.0
70/74	*	*	*	.7	1.3	.2	.1	.1	.0	*
65/69	.3	*	.1	7.5	11.2	2.3	1.4	.9	.0	.1
60/64	.6	.2	.3	22.0	31.3	8.0	3.2	1.8	.0	.4
55/59	.1	*	.0	1.4	2.4	.9	.3	.2	.0	*
50/54	.0	.0	.0	.1	.1	*	.0	.0	.0	.0
TOTAL	1.0	.3	.4	31.7	46.5	11.5	5.0	3.0	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	67	65	62	58	55	50	61.7	2524
06009	80	69	67	63	59	56	50	62.8	2059
12015	82	74	71	65	61	58	51	65.3	2800
18021	81	69	67	63	59	57	54	62.9	1929
TOT	82	72	68	63	59	56	50	63.3	9312

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.8	7.3	24.6	42.7	24.7	83	1294
06009	.0	2.7	9.5	29.4	38.3	20.1	81	1390
12015	.0	5.3	19.8	33.0	31.1	10.8	77	1535
18021	.0	.6	7.5	26.9	42.4	22.5	82	1233
TOT	0	137	623	1565	2085	1042	80	5452

NOVEMBER

PERIOD: (PRIMARY) 1923-1975
(OVER-ALL) 1855-1975AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.1	.0	.0	12	.0	.2
11/13	.0	.0	.0	.2	.0	.2	.0	.0	.0	31	.0	.5
9/10	.0	.0	.0	.1	.2	.4	.2	.0	.0	47	.0	.8
7/8	.0	.0	.1	.3	.4	.8	.1	.0	.0	92	.0	1.7
6	.0	.0	.1	.3	.8	.4	.0	.0	.0	92	.0	1.7
5	.0	.0	.3	.5	1.7	.8	.0	.0	.0	185	.1	3.3
4	.0	.1	.3	1.0	2.1	.6	.0	.0	.0	231	.0	4.1
3	.0	.2	.1	2.1	3.5	.3	.0	.0	.0	344	.1	6.1
2	.1	.1	.6	5.5	4.3	.2	.0	.0	.0	603	.2	10.7
1	.0	.0	.9	11.9	4.1	.1	.0	.0	.0	948	.3	16.7
0	.0	.2	1.5	16.1	2.6	.1	.0	.0	.0	1139	.3	20.1
-1	.0	.0	2.3	12.3	1.3	.0	.0	.0	.0	857	.2	15.7
-2	.0	.0	2.4	5.5	.6	.0	.0	.0	.0	473	.1	8.4
-3	.0	.0	1.7	2.9	.3	.0	.0	.0	.0	278	.0	5.0
-4	.0	.0	.8	.8	.0	.0	.0	.0	.0	89	.0	1.6
-5	.0	.0	.4	.4	.0	.0	.0	.0	.0	52	.0	.9
-6	.0	.0	.3	.1	.0	.0	.0	.0	.0	27	.0	.5
-7/-8	.0	.1	.2	.1	.0	.0	.0	.0	.0	22	.0	.4
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	14	.0	.3
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	7	48	676	3360	1238	205	33	5	3	5575	70	5505
PCT	.1	.9	12.1	60.3	22.2	3.7	.6	.1	.1	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
1-2	.1	.3	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.2	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.5	.2	.0	.0	.0	.8	.0	.1	.1	.0	.0	.0	.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	.6
1-2	.0	.2	.0	.0	.0	.0	.2	.1	1.6	1.4	.0	.0	.0	3.1
3-4	.0	.1	.1	.0	.0	.0	.2	.1	1.1	4.4	.8	.0	.0	6.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	2.8	.1	.0	8.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.8	3.0	.3	.0	6.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	2.6	.3	.0	4.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.6	.3	.0	2.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.2	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.1	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.1	.1	.0	.0	.5	.4	3.7	15.8	12.4	1.6	.0	33.8

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER

AREA 0018 ALEXANDER BAY SW
30.4S 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.8	*	.0	.0	.0	1.2	.3	.7	*	.0	.0	.0	.0	1.1
1-2	.3	5.0	2.2	.0	.0	.0	7.5	.2	3.3	.4	.0	.0	.0	.0	3.9
3-4	.0	3.7	6.8	.8	.0	.0	11.3	*	2.1	1.0	*	.0	.0	.0	3.2
5-6	*	1.1	8.2	1.6	*	.0	10.9	*	.2	.6	.1	.0	.0	.0	.9
7	.0	.1	5.1	2.9	.4	.0	8.4	.0	.1	.3	*	.0	.0	.0	.5
8-9	.0	.0	1.2	2.1	.1	.0	3.3	.0	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	.4	1.8	*	.0	2.2	.0	.0	*	.1	.0	.0	.0	.1
12	.0	.0	.2	.4	.1	.0	.7	.0	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.1	.7	.1	.0	.9	.0	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	*
20-22	.0	.0	.0	*	*	.0	*	.0	.0	.0	*	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.7	24.2	10.4	.8	.0	46.7	.6	6.4	2.5	.2	.0	.0	.0	9.7

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	.5	*	.0	.0	.0	.8	*	.1	.0	.0	.0	.0	.0	.2	
1-2	.1	1.7	.2	.0	.0	.0	2.0	.1	.8	.2	.0	.0	.0	.0	1.0	
3-4	*	.7	.4	*	.0	.0	1.1	*	.5	.6	*	.0	.0	.0	1.2	
5-6	.0	.1	.4	*	.0	.0	.5	.0	*	.3	*	.0	.0	.0	.4	
7	.0	*	.1	*	.0	.0	.1	.0	*	.1	*	.0	.0	.0	.1	
8-9	.0	.0	*	*	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.0	1.1	.1	.0	.0	4.6	.1	1.5	1.3	.1	.0	.0	.0	3.0	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.5	2.8	.1	.0	.0	.0	5.4	
1-2	1.0	12.8	4.4	.0	.0	.0	18.2	
3-4	.1	8.3	13.4	1.5	.0	.0	23.4	
5-6	.1	1.8	14.7	4.5	.1	.0	21.1	
7	.0	.4	8.3	8.0	.6	.0	15.3	
8-9	.0	*	2.6	4.8	.4	.0	7.6	
10-11	*	.0	.9	3.4	.3	.0	4.7	
12	.0	.0	.3	1.3	.3	.0	1.9	
13-16	.0	.0	.2	1.2	.2	.0	1.7	
17-19	.0	.0	.0	.3	.3	.0	.6	
20-22	.0	.0	.0	.1	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	26.2	44.8	23.0	2.3	.0	100.0	3636

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	3.0	5.1	5.0	3.7	1.9	1.8	.5	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	991	5
6-7	.0	.3	3.1	5.7	6.4	4.1	4.2	1.9	2.3	.7	.3	.1	*	.0	.0	.0	.0	.0	.0	1305	8
8-9	.0	.2	.9	2.7	4.8	3.8	3.3	1.8	2.7	.9	.1	.1	.2	.0	.0	.0	.0	.0	.0	958	9
10-11	.0	.2	.6	1.0	2.2	2.1	1.7	1.1	1.3	.4	.2	*	*	.0	.0	.0	.0	.0	.0	483	9
12-13	.0	.0	.4	.4	.7	.7	1.1	.6	.8	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	238	10
>13	.0	.0	.0	.3	.5	.2	.2	.2	.1	.1	.2	.1	*	.0	.0	.0	.0	.0	.0	94	11
INDFT	.5	.8	1.4	1.5	1.2	1.3	.9	.2	.4	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	385	6
TOTAL	46	200	511	745	870	633	592	285	364	130	44	21	13	0	0	0	0	0	0	4454	8
PCT	1.0	4.5	11.5	16.7	19.5	14.2	13.3	6.4	8.2	2.9	1.0	.5	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1895-1975

DECEMBER

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE											OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWK	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	3.0	.0	6.1	.0	.0	.0	.0	9.1	.0	.0	6.1	.0	.0	.0	84.8	
NE	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	4.5	9.1	.0	.0	84.1	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
SE	.2	.2	.4	.0	.0	.0	.0	.8	.3	.2	.8	*	1.9	.0	96.0	
S	.2	.2	.4	.0	.0	.0	.0	.7	.8	.5	1.3	.1	1.8	.0	94.8	
SW	.2	.5	.5	.0	.0	.0	.0	1.2	1.3	1.1	.9	.2	.6	.2	94.6	
W	.3	1.4	2.4	.0	.0	.0	.0	4.1	1.5	.0	2.2	.0	2.3	.0	90.0	
NW	1.8	2.6	2.6	.0	.0	.0	.0	6.2	1.7	.0	1.7	.0	.7	.0	89.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	2.0	2.0	.0	.0	.0	.0	4.1	.0	.0	8.2	.0	.0	.0	87.8	
TOT PCT	.3	.4	.6	.0	.0	.0	.0	1.2	.7	.4	1.2	.1	1.7	*	94.7	
TOT OBS:	5611															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	.1	.8	.5	.0	.0	.0	.0	1.3	.8	1.6	1.4	.1	1.2	.0	93.8
06009	.7	.4	1.0	.0	.0	.0	.0	2.0	1.3	.1	1.2	.2	1.6	.0	93.6
12015	.2	.1	.3	.0	.0	.0	.0	.5	.6	.1	1.3	.0	1.7	.1	95.9
18021	.2	.3	.5	.0	.0	.0	.0	.8	.5	.2	1.1	.1	2.3	.0	95.0
TOT PCT	.3	.4	.6	.0	.0	.0	.0	1.2	.8	.5	1.2	.1	1.7	*	94.6
TOT OBS:	5725														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.1	.4	.1	*	.0	.0	.6	7.9	.4	.4	1.1	1.1	.7	.5	.3	1.2		
NE	.1	.1	*	*	.0	.0	.2	8.0	.3	.3	.3	.0	.2	.2	.1	.0		
E	.1	.3	.1	*	.0	.0	.6	8.7	.5	.8	.8	.0	.7	.2	.3	.0		
SE	.3	4.9	12.5	6.9	.5	*	25.1	17.5	24.2	25.1	29.2	26.5	27.2	20.3	20.8	25.0		
S	1.0	12.9	26.5	10.4	.5	*	51.3	15.8	52.7	46.8	48.7	61.0	49.1	51.3	56.3	60.8		
SW	.7	7.1	5.2	.7	.0	.0	13.8	10.9	14.7	18.4	11.5	6.6	12.0	17.5	14.9	8.0		
W	.4	3.0	1.2	.1	*	.0	4.8	9.1	4.3	4.9	4.0	2.9	5.2	6.5	5.0	3.7		
NW	.2	1.5	.8	.1	*	.0	2.6	10.6	2.1	1.9	2.8	1.8	3.8	3.2	1.8	.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.0						1.0	.0	.9	1.5	1.7	.0	1.0	.3	.5	1.2		
TOT OBS	339	2688	4155	1644	93	1	8920	14.8	1725	684	1914	68	2037	631	1780	81		
TOT PCT	3.8	30.1	46.6	18.4	1.0	*	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.3	.3	*	.0	.0		.6	7.9	.4	1.1	.6	.4
NE	.1	.1	*	.0	.0		.2	8.0	.3	.3	.2	.1
E	.3	.3	.1	.0	.0		.6	8.7	.6	.8	.6	.3
SE	1.5	9.2	11.8	2.5	*		25.1	17.5	24.4	29.1	25.6	21.0
S	4.4	23.5	19.9	3.5	*		51.3	15.8	51.0	49.1	49.6	56.5
SW	3.4	8.0	2.2	.2	.0		13.8	10.9	15.8	11.3	13.3	14.6
W	1.8	2.5	.4	*	.0		4.8	9.1	4.4	4.0	5.5	5.0
NW	.7	1.5	.4	.1	.0		2.6	10.6	2.0	2.7	3.7	1.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	1.1	1.6	.9	.5
TOT OBS	1205	4048	3105	554	8	8920	14.8		2409	1982	2668	1861
TOT PCT	13.5	45.4	34.8	6.2	.1	100.0			100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1855-1975

TABLE 4

AREA 0018 ALEXANDER BAY SW
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS						
00603	1.1	3.0	30.9	46.0	18.0	1.0	.0	14.6	100.0	2409		
06609	1.6	3.7	31.5	44.8	17.4	1.0	.1	14.3	100.0	1982		
12615	.9	2.8	29.7	47.8	17.7	1.1	.0	14.9	100.0	2668		
18621	.5	1.4	28.3	47.6	21.1	1.1	.0	15.6	100.0	1861		
TOT	91	248	2688	4155	1844	93	1	14.8		8920		
PCT	1.0	2.8	30.1	46.6	18.4	1.0	*	100.0				

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL CLOUD COVER	MEAN
N	.1	*	*	.3	6.0	
NE	.1	*	.0	.1	4.1	
E	.2	*	.2	.1	4.4	
SE	11.5	5.3	7.4	3.4	3.6	
S	23.9	9.6	13.3	6.7	3.5	
SW	4.4	1.9	2.4	1.5	3.7	
W	1.6	.8	1.1	.7	4.0	
NW	.7	.5	.7	.6	4.7	
VAR	.0	.0	.0	.0	.0	
CALM	.3	.1	.3	.2	4.6	
TOT OBS	2021	863	1203	644	4731	3.6
TOT PCT	42.7	18.2	25.4	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	.0	*	.1	.1	.1	*	.0	.0	.0	.2	
*	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
.0	.0	.0	.1	.1	*	.1	*	.0	*	.3	
*	*	.2	1.2	4.2	2.0	1.0	.2	.1	*	18.5	
*	.0	.5	2.9	7.7	3.8	1.3	.3	.2	.2	36.6	
*	.0	.1	.5	1.4	.9	.2	.1	*	*	7.0	
.0	.0	.1	.4	.6	.3	.1	*	*	.0	2.8	
*	.0	.1	.2	.5	.2	*	*	*	.0	1.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.1	.1	.1	.1	.0	*	.4	
7	1	43	257	695	350	132	33	16	15	3182	4731
.1	*	.9	5.4	14.7	7.4	2.8	.7	.3	.3	67.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
* OR >5000	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
* OR >3500	3.6	4.1	4.1	4.1	4.1	4.1	4.1	4.1
* OR >2000	10.2	11.5	11.5	11.5	11.5	11.5	11.5	11.5
* OR >1000	22.8	25.9	26.2	26.2	26.2	26.2	26.2	26.2
* OR >600	26.3	30.9	31.5	31.5	31.5	31.6	31.6	31.6
* OR >300	27.0	31.8	32.4	32.4	32.4	32.5	32.5	32.5
* OR >150	27.0	31.8	32.4	32.5	32.5	32.5	32.5	32.5
* OR >0	27.0	31.8	32.5	32.5	32.5	32.6	32.6	32.6
TOTAL	1300	1531	1564	1566	1568	1571	1573	1573

TOTAL NUMBER OF OBS: 4818

PCT FREQ NH <5/8: 67.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
20.3	16.8	12.9	9.8	7.4	6.0	6.5	8.2	12.0	.1	5055

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1855-1975

DECEMBER

AREA 0018 ALEXANDER BAY SW
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
	NO PCP	*	.0	.0	*	.1	*	*	*	.0	*	.2	
	TOT %	*	.0	.0	*	.1	*	*	*	.0	.1	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	.0	*	.1	*	*	*	.0	.0	.2	
	TOT %	*	*	.0	*	.1	*	*	*	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.1	*	.0	*	.0	*	.1	
	TOT %	.0	.0	.0	.0	.1	*	.0	.1	.0	*	.1	
2<5	PCP	*	*	.0	*	*	.0	.0	*	.0	.0	.2	
	NO PCP	*	*	*	.2	.5	*	.1	*	.0	.0	.8	
	TOT %	.1	*	*	.3	.5	*	.1	*	.0	.0	1.0	
5<10	PCP	.0	.0	.0	.1	.1	.1	.1	*	.0	*	.5	
	NO PCP	*	.1	*	3.7	9.3	1.8	.4	.2	.0	.1	15.7	
	TOT %	*	.1	*	3.9	9.4	1.9	.4	.2	.0	.2	16.2	
10+	PCP	.0	.0	.0	.1	.2	*	.1	*	.0	.0	.4	
	NO PCP	.3	.1	.5	22.6	43.2	8.8	3.6	2.0	.0	.6	81.8	
	TOT %	.3	.1	.5	22.6	43.5	8.8	3.7	2.0	.0	.6	82.2	
TOT OBS													5610
TOT PCT		.4	.2	.5	26.8	53.6	10.9	4.3	2.4	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.0	.0	*	.1	*	*	*	.0	*	.2	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	*	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	*	.1	*	*	*	.0	*	.3	
1/2<1	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	*	*	*	*	.0	.0	.1	
	11-21	.0	*	.0	*	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.0	*	.1	*	*	*	.0	.0	.2	
1<2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
	11-21	.0	.0	.0	.0	*	*	.0	*	.0	*	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	TOT %	.0	.0	*	*	.1	*	*	*	.0	*	.2	
2<5	0-3	*	.0	*	*	*	*	*	*	.0	.0	.1	
	4-10	*	*	*	*	.1	.1	*	*	.0	.0	.4	
	11-21	.0	.0	.0	.2	.3	*	.0	.0	.0	.0	.5	
	22+	*	.0	.0	.1	.2	.0	.0	*	.0	*	.3	
	TOT %	.1	*	*	.3	.7	.1	.1	*	.0	.0	1.3	
5<10	0-3	.0	*	*	.1	.2	.1	*	*	.0	.1	.6	
	4-10	*	*	*	.7	1.9	1.1	.3	.1	.0	.0	4.3	
	11-21	*	*	.0	1.8	4.8	.6	.1	.1	.0	.0	7.4	
	22+	.0	*	.0	1.3	2.2	.1	*	*	.0	.0	3.6	
	TOT %	*	.1	.1	3.9	9.1	1.9	.4	.3	.0	.1	15.9	
10+	0-3	.1	.1	*	.2	.7	.4	.3	.1	.0	.6	2.4	
	4-10	.2	*	.3	4.4	11.4	5.5	2.2	1.0	.0	.0	24.9	
	11-21	.1	*	.1	11.1	23.0	3.4	.9	.7	.0	.0	39.2	
	22+	.0	.0	*	6.4	8.7	.3	.1	.1	.0	.0	15.6	
	TOT %	.4	.1	.5	22.0	43.7	9.6	3.4	1.9	.0	.6	82.2	
TOT OBS													6691
TOT PCT		.5	.2	.6	26.3	53.7	11.7	4.0	2.3	.0	.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1921-1975
(OVER-ALL) 1855-1975AREA 0018 ALEXANDER BAY SW
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00603	.1	.0	1.2	4.9	16.4	7.6	2.4	.7	.4	.4	33.9	66.1	1058
06609	.3	.1	1.2	7.6	19.5	10.5	4.3	1.2	.4	.2	45.4	54.6	1338
12615	.1	.0	.5	3.7	10.8	5.3	2.3	.4	.4	.3	23.8	76.2	1387
18621	.1	.0	.7	4.6	10.4	5.3	1.6	.4	.1	.3	23.5	76.5	1188
TOT	7	1	44	261	707	358	134	93	10	15	1576	3395	4971
PCT	.1	*	.9	5.3	14.2	7.2	2.7	.7	.3	.3	31.7	68.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.2	.1	.1	1.1	19.4	79.0	1692
06609	.4	.3	.2	1.3	14.9	83.0	1669
12615	.2	.2	.3	1.4	15.1	82.8	1940
18621	.3	.1	.1	1.4	14.1	84.0	1504
TOT	19	13	11	89	1081	5592	6805
PCT	.3	.2	.2	1.3	15.9	82.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH < 5/8 AND 5+	TOTAL OBS
00603	.1	1.4	6.6	28.5	64.9	1029
06609	.3	1.6	9.7	36.9	53.4	1305
12615	.1	.7	5.4	19.6	74.9	1341
18621	.1	.8	6.6	18.5	75.0	1143
TOT	7	54	342	1249	3227	4818
PCT	.1	1.1	7.1	25.9	67.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	*	.0	.0	.0	2	*
75/79	.0	.0	*	.2	.2	.3	.1	.0	39	.8
70/74	.0	.0	*	.4	1.5	3.1	2.1	.2	372	7.4
65/69	.0	.0	.1	.9	5.0	15.3	25.2	12.1	2960	58.6
60/64	.0	.0	.1	.5	4.0	8.3	11.5	7.3	1602	31.7
55/59	.0	.0	.0	*	.2	.2	.4	.6	71	1.4
50/54	.0	.0	.0	.0	.0	*	.0	.1	5	.1
45/49	.0	.0	.0	.0	.0	*	.0	.0	1	*
TOTAL	0	0	10	104	552	1380	1985	1021	5052	100.0
PCT	.0	.0	.2	2.1	10.9	27.3	39.3	20.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	*	.0	.0	.0	.0
*	.0	.0	.2	.3	.1	.1	.1	.0	*
*	.0	.1	2.0	3.7	.8	.5	.3	.0	*
.2	*	.3	16.2	30.5	6.5	2.9	1.6	.0	.3
.1	*	.1	8.1	18.0	3.6	.9	.4	.0	.4
*	*	.0	.2	.8	.2	*	.1	.0	.1
.0	.0	.0	*	*	*	.0	.0	.0	.0
.0	.0	.0	*	.0	.0	.0	.0	.0	.0
.4	.1	.5	26.8	53.2	11.2	4.4	2.5	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	78	69	68	64	60	57	52	64.0	2404
06609	81	72	69	65	61	57	52	65.1	1996
12615	82	76	73	68	63	60	48	67.7	2649
18621	82	72	69	65	62	59	52	65.5	1852
TOT	82	74	71	65	61	58	48	65.7	8901

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	.8	7.4	21.1	41.5	29.2	83	1211
06609	.0	2.0	11.0	26.5	38.4	22.1	81	1326
12615	.0	4.9	16.5	36.4	32.8	9.4	77	1413
18621	.0	.8	7.8	23.6	45.7	22.1	82	1193
TOT	0	116	562	1401	2020	1044	81	5143

DECEMBER

PERIOD: (PRIMARY) 1921-1975
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.1	*	.0	*	*	7	.0	.1
11/13	.0	.0	.0	.1	.1	.0	.2	.1	.0	26	.0	.5
9/10	.0	.0	.0	.1	.1	.1	.3	.1	.0	35	.0	.7
7/8	.0	.0	.1	.2	.5	.5	.4	*	.0	91	*	1.7
6	.0	.0	*	.2	.5	.9	.2	*	.0	96	*	1.8
5	.0	*	.1	.3	1.0	1.5	.3	.1	.0	166	*	3.2
4	.0	*	.1	.8	2.0	1.7	.2	*	.0	252	.1	4.8
3	.0	.1	.1	.9	3.8	2.3	.1	.0	.0	380	.1	7.3
2	.0	.1	.4	2.2	7.8	1.6	.1	.0	.0	627	.2	12.0
1	.0	.1	.2	3.4	11.7	1.4	*	.0	.0	868	.2	16.7
0	.0	.1	.2	6.3	12.5	.7	*	.0	.0	1015	.2	19.5
-1	.0	.0	.1	6.9	7.4	.4	.0	.0	.0	755	.1	14.5
-2	.0	*	.2	4.9	2.7	.1	.0	.0	.0	413	.1	7.9
-3	.0	.0	.4	2.5	1.2	*	.0	.0	.0	211	.1	4.0
-4	.0	.1	.2	1.2	.3	.0	*	.0	.0	96	*	1.8
-5	.0	.0	.1	.7	.2	*	.0	.0	.0	54	*	1.0
-6	.0	.0	.1	.3	.2	.0	.0	.0	.0	29	.0	.6
-7/-8	*	.0	.1	.2	*	*	.0	.0	.0	20	.0	.4
-9/-10	.0	.0	.0	.1	*	.0	.0	.0	.0	7	.0	.1
-11/-13	*	.0	.0	*	.0	.0	.0	.0	.0	2	.0	*
-14/-16	*	.0	*	.0	*	.0	.0	.0	.0	3	.0	.1
TOTAL	3		126		2689	590	94	18	2	5153	58	5095
PCT	.1	.4	2.4	31.3	52.2	11.4	1.8	.3	*	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	.0	*
1-2	.1	.1	.1	.0	.0	.0	.3	.1	*	.0	.0	.0	.0	.0	.1
3-4	.0	*	*	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.2	.1	*	.0	.0	.5	.1	*	.0	*	*	.0	.0	.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*	.1	.3	*	.0	.0	.0	.0	.4
1-2	.0	.2	*	.0	.0	.0	.2	.2	2.6	.9	.0	.0	.0	.0	3.6
3-4	*	.1	*	.0	.0	.0	.1	.1	2.1	3.6	.6	.0	.0	.0	6.4
5-6	.0	.1	*	.0	.0	.0	.1	.0	.5	5.2	1.1	*	.0	.0	6.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.0	1.4	.0	.0	.0	3.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	*	1.0	1.9	.2	.0	.0	3.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.1	*	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.3	.1	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	*	.3	.1	.0	.0	.0	.4	.3	5.7	13.2	6.5	.5	*	.0	26.2

PERIOD: (OVER-ALL) 1963-1975

DECEMBER

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.9	.0	.0	.0	.0		1.2	.2	.5	*	.0	.0	.0		.7
1-2	.5	6.7	3.3	.0	.0	.0		10.5	.3	3.7	.6	.0	.0	.0		4.6
3-4	*	4.6	9.6	.9	.0	.0		14.1	.0	1.9	1.6	*	.0	.0		3.5
5-6	*	.9	7.8	2.4	*	.0		11.2	.1	.3	.7	.1	.0	.0		1.1
7	.0	.2	4.3	2.2	.1	.0		6.8	.0	.1	.2	.1	.0	.0		.4
8-9	.0	.0	1.5	1.8	.1	.0		3.5	.0	.0	.1	*	.0	.0		.1
10-11	.0	.0	.5	2.1	*	*		2.7	.0	.0	*	*	.0	.0		.1
12	.0	*	.2	.6	.1	.0		.9	.0	.0	.0	*	.0	.0		*
13-16	.0	*	.2	.5	.1	.0		.8	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	*	*	.1	.0		.1	.0	*	.0	.0	.0	.0		*
20-22	.0	.0	.0	.1	*	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.9	13.3	27.6	10.5	.6	*		53.0	.5	6.4	3.2	.3	.0	.0		10.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.4	*	.0	.0	.0		.5	*	.1	*	.0	.0	.0		.1	
1-2	.1	2.1	.3	.0	.0	.0		2.6	*	.8	.2	.0	.0	.0		1.1	
3-4	*	.5	.5	.0	.0	.0		1.1	*	.3	.3	*	.0	.0		.7	
5-6	.0	.1	.4	.1	.0	.0		.6	.0	.1	.5	.1	.0	.0		.7	
7	.0	.0	.1	*	.0	.0		.1	.0	.0	.2	.1	.0	.0		.2	
8-9	.0	.0	*	.0	.0	.0		*	.0	.0	*	.1	.0	.0		.1	
10-11	.0	.0	*	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	*	*	.0		.1	.0	.0	.0	.0	*	.0		*	
17-19	.0	*	.0	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	3.1	1.5	.2	*	.0		5.0	*	1.3	1.3	.3	*	.0		2.9	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.6	2.4	.1	.0	.0	.0	5.1	
1-2	1.5	16.2	5.3	.0	.0	.0	23.0	
3-4	.2	9.3	15.5	1.6	.0	.0	26.7	
5-6	.1	1.8	14.5	3.8	.1	.0	20.3	
7	.0	.5	6.7	3.8	.1	.0	11.1	
8-9	.0	*	2.7	3.7	.3	.0	6.7	
10-11	.0	.0	.9	3.1	.2	*	4.2	
12	.0	.1	.2	.9	.2	.0	1.4	
13-16	.0	*	.3	.7	.2	.0	1.3	
17-19	.0	*	*	.1	.1	.0	.2	
20-22	.0	.0	.0	.1	*	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	30.3	46.4	17.7	1.2	*	100.0	3273

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	2.5	5.2	4.9	4.0	2.1	1.6	.5	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	893
6-7	.0	.5	2.9	7.1	7.8	4.7	3.9	1.6	1.7	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1285
8-9	*	.2	1.4	3.3	5.7	4.5	3.7	1.8	2.8	.6	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1012
10-11	.0	.3	.4	1.0	1.5	1.6	1.5	1.0	1.4	.7	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	409
12-13	.0	.0	.5	.4	.5	.6	.5	.4	.7	.3	.1	.0	*	.1	.0	.0	.0	.0	.0	.0	174
>13	.0	.0	.0	.2	.3	.3	.5	.4	.2	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	85
INDET	.3	.8	1.4	1.4	1.6	1.0	.8	.2	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	336
TOTAL	19	181	489	761	898	622	526	245	320	93	31	2	7	0	0	0	0	0	0	0	4194
PCT	.5	4.3	11.7	18.1	21.4	14.8	12.5	5.8	7.6	2.2	.7	*	.2	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1911-1970
(OVER-ALL) 1854-1970

ANNUAL

AREA 0018 ALEXANDER BAY SW
30.4S 14.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	2.4	1.2	3.0	.0	.0	.0	.0	6.4	1.6	.7	6.7	.6	1.4	*	82.7
NE	.7	.4	1.7	.0	.0	.0	.0	2.3	1.3	1.2	7.0	1.2	2.0	.2	84.9
E	.6	.3	.6	.0	.0	.0	.0	1.4	1.0	.6	1.9	.2	2.1	*	92.9
SE	.2	.3	.3	.0	.0	.0	.0	.3	.5	.5	1.0	.1	1.1	.1	96.1
S	.4	.5	.6	.0	.0	.0	*	1.5	1.1	.6	1.4	.1	1.5	.1	93.8
SW	.8	1.1	1.0	.0	.0	.0	*	2.8	1.9	.7	1.8	.1	.8	*	91.9
W	1.0	1.5	1.7	.0	.0	.0	*	4.1	2.6	.6	1.8	.1	.8	*	90.0
NW	1.5	1.6	2.2	.0	.0	.0	.0	5.2	2.8	.6	2.9	.3	1.1	*	87.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.3	.6	.0	.0	.0	.0	.9	.8	1.6	10.9	.5	3.4	.0	82.0
TOT PCT	.5	.6	.8	.0	.0	.0	*	1.9	1.2	.6	1.6	.1	1.3	.1	93.3
TOT OBS: 69075															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0000	.5	.8	.9	.0	.0	.0	.0	2.2	1.2	1.8	1.5	.1	.8	.1	92.4
0600	.6	.7	1.0	.0	.0	.0	*	2.3	1.5	.2	2.0	.2	1.2	*	92.6
1200	.4	.6	.5	.0	.0	.0	*	1.5	1.0	*	1.8	.2	1.8	.1	93.7
1800	.5	.5	.6	.0	.0	.0	*	1.5	1.0	.5	1.4	.1	1.3	.1	94.1
TOT PCT	.5	.6	.8	.0	.0	.0	*	1.9	1.2	.6	1.7	.1	1.3	.1	93.2
TOT OBS: 70863															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	1.2	.7	.1	*	*		2.3	9.5	7.1	2.5	2.5	2.9	2.6	2.5	1.9	1.6	
NE	.2	.7	.2	*	*	.0		1.1	7.3	1.0	1.0	1.1	1.5	1.3	.9	.8		
E	.2	.9	.5	.1	*	*		1.8	10.2	1.6	1.8	2.1	3.2	2.1	1.8	1.3	1.2	
SE	.6	6.7	14.3	6.7	.7	*		29.0	16.7	28.8	26.3	31.2	31.0	30.7	24.9	27.1	29.8	
S	1.1	11.9	18.5	5.9	.5	*		37.8	14.1	37.8	36.3	37.2	38.3	36.2	33.9	40.5	41.5	
SW	.9	6.8	4.4	.8	.1	*		13.0	10.7	13.3	15.4	11.8	11.1	11.8	15.2	13.8	11.5	
W	.6	3.9	2.1	.4	.1	*		7.0	10.0	7.1	7.6	6.3	5.4	7.3	7.8	7.2	5.6	
NW	.5	2.9	2.2	.4	.1	*		6.0	10.7	5.7	6.2	5.8	5.6	6.4	6.6	5.8	5.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0							2.0	.0	2.7	2.8	1.9	1.0	1.6	1.5	1.7	2.8	
TOT OBS							106942		13.6	20664	7989	22509	1134	25329	7516	20731	1070	
TOT PCT	6.4	34.9	42.9	14.5	1.4	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.8	1.1	.3	*	*		2.3	9.5	2.2	2.5	2.6	1.8	
NE	.5	.5	.1	*	.0		1.1	7.3	1.0	1.2	1.2	.8	
E	.7	.8	.3	*	*		1.8	10.2	1.7	2.1	2.0	1.3	
SE	2.8	11.6	11.8	2.7	.1		29.0	16.7	28.1	31.2	29.3	27.2	
S	5.0	18.4	12.4	1.9	.1		37.8	14.1	37.4	37.3	36.8	40.5	
SW	3.7	6.9	2.1	.2	*		13.0	10.7	13.9	11.8	12.6	13.7	
W	2.4	3.6	.9	.2	*		7.0	10.0	7.2	6.3	7.4	7.1	
NW	1.6	3.1	1.0	.1	*		6.0	10.7	5.8	5.8	6.5	5.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.0						2.0	.0	2.7	1.9	1.5	1.8	
TOT OBS						106942		13.6	28653	23643	32845	21801	
TOT PCT	19.5	46.0	29.0	5.2	.2		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1854-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.7	4.5	35.6	41.7	14.0	1.4	*	13.3	100.0	28653
06009	1.9	4.6	35.7	42.9	13.6	1.3	*	13.4	100.0	23643
12015	1.5	4.7	33.8	43.9	14.7	1.3	.1	13.7	100.0	32845
18021	1.8	3.7	34.8	42.8	15.5	1.4	*	13.9	100.0	21801
TOT								13.6		106942
PCT	2.0	4.4	34.9	42.9	14.5	1.4	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.3	.6	.6		5.0
NE	.5	.1	.2	.1		3.6
E	1.1	.2	.3	.2		3.4
SE	15.1	5.8	7.9	3.3		3.2
S	16.4	7.1	10.3	5.0		3.6
SW	3.7	2.3	3.3	1.7		4.1
W	2.0	1.3	1.9	1.1		4.2
NW	1.4	.9	1.8	1.3		4.7
VAR	.0	.0	.0	.0		.0
CALM	.9	.2	.3	.3		3.7
TOT OBS					57828	3.6
TOT PCT	41.5	18.3	26.6	13.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	*	*	.2	.4	.2	.1	*	*	*	1.0	
*	*	*	.1	.1	*	*	*	*	*	.8	
*	*	*	.1	.1	.1	*	*	*	*	1.5	
.1	*	.2	1.5	4.0	2.1	.8	.2	.1	.1	22.9	
.1	.1	.4	2.4	5.5	2.7	.9	.2	.1	.2	25.9	
*	*	.1	.8	1.5	.9	.3	.1	*	.1	7.0	
*	*	.1	.5	1.0	.5	.2	.1	*	*	4.0	
*	*	.1	.5	1.0	.5	.2	.1	*	*	3.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	*	*	.1	.2	.1	*	*	*	*	1.2	
.4	.2	1.0	6.2	13.7	7.2	2.5	.7	.4	.4	67.2	57828
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	.6	.8	.8	.8	.8	.8	.8	.8
>5000	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>3500	3.4	3.9	4.0	4.0	4.0	4.0	4.0	4.0
>2000	9.7	11.1	11.2	11.2	11.2	11.2	11.2	11.2
>1000	21.5	24.6	24.9	24.9	24.9	24.9	24.9	24.9
>600	26.2	30.6	31.1	31.1	31.1	31.2	31.2	31.2
>300	26.8	31.4	32.1	32.2	32.2	32.2	32.2	32.2
>150	26.8	31.6	32.3	32.3	32.3	32.4	32.4	32.4
>0	26.9	31.7	32.4	32.5	32.6	32.7	32.8	32.8

TOTAL NUMBER OF OBS: 59049

PCT FREQ NH <5/8: 67.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
22.1	14.9	12.1	10.0	7.5	5.7	7.3	8.4	11.7	.3	61917

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1854-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	*	.0	.0	*	*	
	NO PCP	*	*	*	.1	.1	*	*	.1	.0	.1	.5	
	TOT %	*	*	*	.1	.1	*	*	.1	.0	.1	.5	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	*	
	NO PCP	*	*	.0	*	.1	*	*	*	.0	*	.2	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.2	
1<2	PCP	*	.0	.0	*	*	*	*	*	.0	.0	*	
	NO PCP	*	*	*	.1	.1	*	*	*	.0	*	.3	
	TOT %	*	*	*	.1	.2	*	*	*	.0	*	.4	
2<5	PCP	*	*	*	*	.1	*	*	.1	.0	*	.3	
	NO PCP	.1	*	*	.2	.3	.1	.1	.1	.0	*	.9	
	TOT %	.1	*	*	.2	.4	.2	.1	.1	.0	*	1.1	
5<10	PCP	.1	*	*	.1	.2	.2	.1	.2	.0	*	.9	
	NO PCP	.4	.2	.2	4.0	5.9	1.7	.8	.9	.0	.3	14.4	
	TOT %	.5	.2	.2	4.1	6.2	1.8	.9	1.0	.0	.3	15.3	
10+	PCP	*	*	*	.1	.2	.1	.1	.1	.0	*	.6	
	NO PCP	1.4	.8	1.5	26.6	31.5	9.2	5.2	4.3	.0	1.3	81.8	
	TOT %	1.4	.8	1.5	26.7	31.6	9.3	5.3	4.4	.0	1.3	82.5	
TOT OBS													69027
TOT PCT		2.1	1.0	1.8	31.3	38.6	11.4	6.4	5.7	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	*	*	*	*	.1	*	*	*	.0		.3	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	.0	*	*	.0	.0	.0	.0		*	
	TOT %	*	*	*	.1	.1	.1	*	*	.0	.1	.5	
1/2<1	0-3	*	*	.0	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	.0	*	.0	*	*	*	*	*	.0		.1	
	22+	*	.0	.0	*	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.2	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	.0	*	.1	*	*	*	.0		.1	
	22+	*	.0	.0	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	.1	.2	*	*	*	.0	*	.4	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	*	*	.1	.2	.1	.1	.1	.0		.5	
	11-21	*	*	*	.1	.2	*	*	.1	.0		.4	
	22+	.1	.0	*	*	.1	*	*	*	.0	*	.2	
	TOT %	.1	*	*	.2	.4	.2	.1	.1	.0	*	1.3	
5<10	0-3	*	*	*	.1	.2	.1	.1	.1	.0	.3	1.0	
	4-10	.2	.1	.1	.8	1.7	.9	.5	.4	.0		4.8	
	11-21	.2	*	.1	1.9	2.9	.6	.2	.4	.0		6.3	
	22+	*	*	*	1.2	1.2	.2	.1	.1	.0		2.7	
	TOT %	.5	.2	.2	3.9	6.0	1.8	.9	1.0	.0	.3	14.8	
10+	0-3	.2	.1	.2	.5	.8	.6	.4	.3	.0	1.5	4.5	
	4-10	.8	.5	.8	5.9	10.3	5.7	3.2	2.2	.0		29.3	
	11-21	.5	.1	.5	13.2	15.9	3.1	1.5	1.7	.0		36.4	
	22+	.1	*	.1	6.6	4.9	.4	.2	.2	.0		12.6	
	TOT %	1.5	.8	1.5	26.2	32.0	9.7	5.3	4.4	.0	1.5	82.8	
TOT OBS													79808
TOT PCT		2.2	1.0	1.8	30.5	38.8	11.8	6.3	5.6	.0	1.9	100.0	

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PERIOD: (PRIMARY) 1911-1976
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.5	.2	1.1	6.2	14.0	7.0	2.2	.7	.3	.5	32.5	67.5	13586
06009	.6	.2	1.4	7.8	17.2	9.2	3.4	.9	.4	.5	41.6	58.4	16207
12015	.4	.2	.8	4.9	11.1	6.1	2.2	.6	.4	.4	26.9	73.1	17145
18021	.3	.2	.8	5.4	11.3	5.5	2.0	.5	.3	.3	26.7	73.3	13755
TOT PCT	.4	.2	1.0	6.1	13.4	7.0	2.5	.7	.3	.4	32.0	68.0	60693 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.2	.3	1.2	17.0	80.8	20606
06009	.8	.3	.3	1.5	13.8	83.2	20018
12015	.5	.3	.5	1.2	14.5	83.0	23344
18021	.5	.2	.3	1.3	13.9	83.8	17659
TOT PCT	.6	.2	.4	1.3	14.8	82.7	81627 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.5	1.8	8.8	25.1	66.1	13183
06009	.6	2.3	11.1	31.7	57.2	15861
12015	.4	1.4	7.2	20.9	71.9	16655
18021	.3	1.5	7.7	20.1	72.2	13350
TOT PCT	.4	1.8	8.7	24.6	66.7	59049 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	*	.0	*	*	.0	.0	.0	.0	*	*
80/84	*	*	*	*	.0	*	.0	.0	.1	*
75/79	*	*	*	.1	.2	.2	.1	*	.6	*
70/74	*	*	*	.2	1.2	2.5	2.1	.6	6.6	*
65/69	*	*	.1	.6	3.2	8.6	12.8	6.3	31.5	*
60/64	.0	*	.1	.9	4.7	10.8	14.4	8.1	39.1	*
55/59	.0	.0	.1	.7	3.4	5.9	7.1	4.2	21.3	*
50/54	.0	.0	.0	*	.1	.2	.2	.2	.8	*
45/49	.0	.0	.0	.0	*	*	*	.0	*	*
TOTAL PCT	*	*	.3	2.6	12.8	28.1	36.7	19.5	61672	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	*	.0	.0	.0	.0
.0	.0	*	*	*	*	.0	*	.0	*
*	*	*	.2	.3	.1	*	*	.0	*
*	*	.1	2.0	3.2	.7	.3	.2	.0	.1
.3	.2	.3	10.0	14.7	3.2	1.4	1.0	.0	.3
1.1	.6	.9	12.1	13.7	4.4	2.8	2.8	.0	.8
.5	.3	.5	7.0	6.5	2.8	1.8	1.4	.0	.5
*	*	*	.2	.2	.2	.1	*	.0	*
.0	.0	.0	*	*	*	*	.0	.0	.0
2.0	1.0	1.8	31.5	38.6	11.4	6.4	5.6	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	67	66	62	58	55	46	61.9	28773
06009	86	69	66	63	58	56	48	62.6	23811
12015	87	73	70	65	60	58	48	65.0	32693
18021	86	69	67	63	59	56	48	62.9	21900
TOT	87	71	68	63	59	56	46	63.2	107177

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	*	1.8	9.6	23.8	39.1	29.7	82	15293
06009	*	2.6	11.5	26.6	36.8	22.4	81	16115
12015	*	4.9	18.9	33.5	31.7	11.0	77	17646
18021	*	1.8	10.0	27.2	39.9	21.1	81	14143
TOT	7	1840	8087	17691	23140	12432	80	63197

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1854-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	81	85	TOT	W FOG	W0 FOG
48	52	56	60	64	68	72	76	80	84	88				
23/25	.0	.0	.0	.0	.0	.0	.0	*	.0	.0		1	.0	*
20/22	.0	.0	.0	.0	.0	*	*	*	*	*		9	.0	*
17/19	.0	.0	.0	.0	*	*	*	*	*	*		36	*	.1
14/16	.0	.0	.0	*	*	*	*	*	*	*		90	*	.1
11/13	.0	.0	.0	*	.1	.1	.1	.1	*	.0		228	*	.3
9/10	.0	.0	.0	*	.1	.1	.2	.1	*	.0		326	*	.5
7/8	.0	.0	.0	.1	.2	.4	.4	.2	.1	.0		884	*	1.4
6	.0	.0	*	.1	.3	.4	.3	.2	*	.0		802	*	1.2
5	.0	.0	*	.2	.6	.9	.6	.3	*	.0		1669	.1	2.6
4	.0	.0	.1	.3	1.1	1.2	.8	.2	*	.0		2353	.1	3.6
3	.0	.0	.1	.4	1.9	2.0	1.1	.2	*	.0		3589	.1	5.6
2	.0	*	.2	1.1	3.6	3.1	1.4	.1	.0	.0		6010	.2	9.3
1	.0	*	.1	2.6	5.3	4.6	1.8	.1	*	.0		9194	.2	14.2
0	.0	*	.4	5.0	6.1	5.2	1.6	*	*	.0		11683	.3	18.1
-1	.0	*	.4	6.0	4.9	4.1	.9	*	.0	.0		10396	.2	16.1
-2	*	*	.7	4.4	3.0	2.4	.3	*	.0	.0		6845	.2	10.6
-3	.0	*	.7	2.8	1.8	1.3	.2	.0	.0	.0		4403	.1	6.8
-4	*	*	.6	1.5	.9	.6	.1	*	.0	.0		2364	.1	3.6
-5	*	*	.4	.8	.5	.3	*	.0	.0	.0		1362	*	2.1
-6	*	*	.2	.4	.2	.1	*	.0	.0	.0		632	*	1.0
-7/-8	*	*	.2	.3	.2	.1	*	.0	.0	.0		487	*	.7
-9/-10	*	*	.1	.1	*	*	*	.0	.0	.0		150	.0	.2
-11/-13	*	*	*	*	*	*	.0	.0	.0	.0		65	*	.1
-14/-16	.0	*	*	*	*	*	.0	.0	.0	.0		22	.0	*
-17/-19	.0	.0	.0	*	.0	.0	.0	.0	.0	.0		3	.0	*
-20/-22	.0	.0	*	*	.0	.0	.0	.0	.0	.0		2	.0	*
TOTAL												63605		
PCT	*	.2	4.2	26.2	30.8	26.9	9.7	1.5	.3	.1	*	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	*	.0	.0	.0	.2	.1	*	*	.0	.0	.0	.1
1-2	.1	.5	.1	.0	.0	.0	.8	.1	.4	*	.0	.0	.0	.5
3-4	*	.3	.2	*	.0	.0	.5	*	.1	.1	*	.0	.0	.2
5-6	*	*	.2	*	.0	.0	.3	.0	*	*	*	.0	.0	.1
7	.0	*	.1	*	.0	.0	.1	.0	*	*	*	.0	.0	*
8-9	.0	*	*	*	.0	.0	*	.0	*	*	.0	.0	.0	*
10-11	.0	.0	*	*	.0	*	*	.0	.0	*	*	.0	.0	*
12	.0	.0	*	*	.0	*	*	.0	.0	.0	*	*	.0	*
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	.0	.0
17-19	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*
20-22	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	.7	.1	*	.0	1.9	.1	.6	.2	*	*	.0	1.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	*	.0	.0	.0	.2	.2	.4	*	.0	.0	.0	.7
1-2	.1	.5	.1	.0	.0	.0	.7	.2	3.4	1.4	.0	.0	.0	5.0
3-4	*	.2	.2	*	.0	.0	.5	*	2.2	4.8	.5	.0	.0	7.5
5-6	.0	*	.2	*	.0	.0	.3	*	.5	5.3	1.4	.1	.0	7.4
7	.0	*	.1	*	.0	.0	.2	*	.1	2.9	2.1	.1	.0	5.3
8-9	*	.0	*	*	*	.0	.1	.0	*	1.0	1.7	.2	*	2.9
10-11	.0	.0	*	*	*	.0	*	.0	*	.4	1.2	.2	*	1.7
12	.0	.0	*	*	*	.0	*	.0	*	.1	.4	.1	.0	.6
13-16	.0	.0	.0	*	.0	.0	*	.0	*	.1	.5	.1	*	.7
17-19	.0	.0	*	.0	.0	.0	*	.0	*	.1	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	.6	.2	*	.0	1.8	.5	6.8	16.0	7.9	.8	*	32.0

PERIOD: (OVER-ALL) 1963-1976

ANNUAL

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	*	.0	.0	.0	1.2	.3	.6	*	.0	.0	.0	.8
1-2	.4	6.2	2.0	.0	.0	.0	8.6	.3	3.6	.5	.0	.0	.0	4.5
3-4	*	3.6	6.7	.5	.0	.0	10.8	*	1.6	1.3	*	.0	.0	2.9
5-6	*	.8	6.4	1.2	*	.0	8.5	*	.3	1.0	.1	*	.0	1.4
7	.0	.2	3.3	1.7	.1	.0	5.2	*	.1	.4	.1	*	.0	.6
8-9	*	*	.9	1.2	.1	*	2.2	.0	*	.1	.1	*	.0	.2
10-11	.0	*	.4	1.0	.1	*	1.5	.0	*	*	*	*	.0	.1
12	.0	*	.1	.4	.1	.0	.5	.0	*	*	*	.0	.0	*
13-16	.0	*	.1	.3	.1	*	.4	.0	*	*	*	*	.0	*
17-19	.0	*	*	*	*	.0	.1	.0	*	*	*	*	.0	*
20-22	.0	.0	*	*	*	*	*	.0	.0	*	*	*	.0	*
23-25	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	*	*	.0	*	.0	.0	.0	.0	.0	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
TOT PCT	.8	11.7	19.8	6.2	.4	*	39.0	.6	6.2	3.4	.4	*	*	10.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	*	.0	.0	.0	.6	.1	.2	*	.0	.0	.0	.3	
1-2	.2	2.3	.3	.0	.0	.0	2.8	.1	1.4	.3	.0	.0	.0	1.9	
3-4	*	.9	.8	*	.0	.0	1.7	*	.7	.9	*	.0	.0	1.6	
5-6	*	.2	.5	.1	.0	.0	.8	*	.1	.6	.1	.0	.0	.9	
7	.0	*	.2	.1	*	.0	.3	.0	*	.2	.1	.0	.0	.4	
8-9	.0	*	.1	*	*	.0	.1	.0	*	.1	.1	*	.0	.2	
10-11	*	*	*	*	*	*	.1	*	.0	*	*	*	.0	.1	
12	.0	.0	*	*	.0	.0	*	.0	.0	*	*	*	.0	*	
13-16	.0	.0	*	*	*	.0	*	*	.0	*	*	*	.0	*	
17-19	.0	*	.0	*	*	*	*	.0	*	.0	*	.0	*	*	
20-22	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	*	*	.0	*	.0	.0	.0	*	*	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.8	1.9	.3	*	*	6.4	.2	2.5	2.1	.4	*	*	5.3	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	2.8	.1	.0	.0	.0	6.9	
1-2	1.8	18.3	4.7	.0	.0	.0	24.8	
3-4	.2	9.5	14.7	1.1	.0	.0	25.4	
5-6	.1	2.0	14.1	2.9	.1	.0	19.3	
7	*	.4	7.0	4.2	.2	*	11.8	
8-9	*	.1	2.2	3.0	.3	*	5.6	
10-11	*	*	.8	2.3	.3	*	3.4	
12	.0	*	.2	.8	.1	.0	1.2	
13-16	*	*	.2	.8	.2	*	1.2	
17-19	.0	*	*	.1	.1	*	.3	
20-22	.0	.0	*	*	*	*	.1	
23-25	.0	.0	*	*	*	.0	*	
26-32	.0	.0	.0	*	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	33.2	44.0	15.3	1.3	*	100.0	40517

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	3.5	5.6	4.6	3.2	1.7	1.1	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10900	5
6-7	*	.5	3.4	5.9	6.0	4.1	3.6	1.6	1.7	.4	.1	.1	*	*	*	.0	.0	.0	.0	14018	7
8-9	*	.2	1.4	3.1	4.6	4.1	3.5	1.9	2.6	.6	.2	.1	*	*	*	.0	.0	.0	.0	11515	9
10-11	.0	.2	.5	1.1	2.0	1.9	1.9	1.1	1.5	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	5694	9
12-13	.0	.0	.5	.5	.7	.8	1.0	.6	1.0	.4	.2	.1	*	*	.0	.0	.0	.0	.0	2939	10
>13	.0	.0	.0	.4	.4	.4	.4	.3	.4	.2	.1	*	*	*	.0	.0	.0	.0	.0	1381	11
INDET	.8	.8	1.3	1.6	1.5	1.2	1.0	.3	.4	.1	.1	*	*	*	.0	.0	.0	.0	.0	4720	6
TOTAL																				51167	8
PCT	1.5	5.4	12.7	17.1	18.5	14.2	12.4	6.3	8.0	2.3	.9	.4	.2	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1854-1976

AREA 0018 ALEXANDER BAY SW
30.45 14.7E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	*	*	*	*	*	.0	.0	.0	.0	.0	.0	*	5	*
79/80	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	*	13	*
77/78	.1	.1	.1	*	*	.0	.0	.0	.0	.0	*	*	32	*
75/76	.2	.1	.2	*	*	.0	.0	.0	*	*	*	*	60	.1
73/74	1.1	1.3	.7	.3	.1	.1	.0	*	*	*	.1	.2	319	.3
71/72	5.0	8.6	4.6	1.4	.3	*	*	.1	*	*	.1	.8	1700	1.7
69/70	19.3	24.6	18.7	5.9	.9	.2	.1	.1	*	.1	.5	3.3	6043	6.1
67/68	33.5	29.5	28.7	20.7	6.2	1.2	.3	.3	.3	.3	2.3	16.2	11509	11.6
65/66	22.3	16.7	20.5	26.9	20.9	5.1	1.2	.7	.5	1.2	10.7	34.7	13396	13.5
63/64	10.4	10.7	14.1	22.9	36.6	23.7	8.1	3.7	4.6	12.1	39.9	30.7	18081	18.3
61/62	4.4	4.3	6.4	10.5	19.5	34.2	27.3	14.7	17.3	37.6	31.3	8.2	17867	18.1
59/60	1.6	2.1	3.4	6.3	10.3	22.6	38.8	43.0	46.8	36.0	10.3	3.2	18365	18.6
57/58	.8	1.0	1.7	3.1	4.1	9.0	16.7	25.4	23.0	9.2	2.6	1.3	7987	8.1
55/56	.6	.6	.6	1.5	1.6	3.0	5.8	7.1	5.4	2.2	1.1	.8	2473	2.5
53/54	+	.2	.2	.3	.2	.7	1.3	2.0	1.2	.6	.5	.4	661	.7
51/52	.2	.1	.1	.1	.1	.1	.3	.5	.6	.5	.6	.2	288	.3
49/50	*	*	.1	*	*	*	.1	.2	.1	.1	.2	*	72	.1
47/48	*	.0	*	*	.0	.0	.0	*	*	.0	*	*	8	*
45/46	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	5	*
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	8614	7562	8616	8003	8675	7906	8346	8071	8087	8203	8514	8287	98884	100.0
MEAN	66.6	67.0	66.2	64.5	63.1	61.2	59.8	59.0	59.2	60.4	62.4	64.6	62.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1015	1014	1015	1015	1015	1014	1014	1014	1015	6472
FEB	1014	1014	1015	1016	1015	1014	1014	1016	1014	5642
MAR	1015	1014	1015	1016	1015	1014	1014	1016	1015	6596
APR	1016	1016	1016	1018	1016	1016	1016	1017	1016	6221
MAY	1018	1018	1018	1018	1018	1018	1018	1018	1018	6443
JUN	1020	1019	1020	1021	1020	1019	1020	1021	1020	6172
JUL	1022	1021	1022	1024	1021	1021	1021	1023	1022	6784
AUG	1021	1020	1021	1022	1021	1020	1021	1021	1021	6636
SEP	1020	1019	1020	1021	1020	1019	1020	1020	1020	6532
OCT	1018	1017	1019	1020	1018	1017	1018	1019	1018	6568
NOV	1016	1015	1017	1017	1017	1015	1016	1017	1016	6718
DEC	1015	1015	1016	1016	1016	1015	1015	1016	1015	6308
ANN	1018	1017	1018	1019	1018	1017	1017	1018	1018	77094
OBS	16037	2907	17867	1151	19379	3003	15653	1097		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1003	1008	1010	1013	1015	1017	1019	1021	1025
FEB	1003	1007	1009	1012	1014	1016	1019	1022	1026
MAR	1003	1007	1010	1013	1015	1017	1020	1023	1027
APR	1002	1008	1011	1014	1016	1018	1022	1025	1029
MAY	1003	1008	1012	1016	1018	1021	1025	1027	1032
JUN	1004	1010	1013	1017	1020	1023	1028	1030	1035
JUL	1005	1010	1014	1019	1021	1024	1029	1032	1037
AUG	1005	1010	1013	1018	1021	1024	1029	1031	1037
SEP	1005	1010	1013	1017	1019	1022	1027	1029	1035
OCT	1005	1009	1012	1015	1018	1021	1025	1028	1033
NOV	1004	1008	1011	1014	1016	1019	1023	1025	1029
DEC	1005	1008	1010	1014	1015	1017	1020	1022	1028

PERIOD: (PRIMARY) 1878-1976
(OVER-ALL) 1855-1976

JANUARY

AREA 0019 CAPE TOWN
34.25 18.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	BLWG SNOW	SPRAY DUST	
N	1.8	3.7	2.8	.0	.0	.0	.0	8.3	1.8	.0	11.9	.0	1.4	.0	.0	76.6
NE	.0	.5	.0	.0	.0	.0	.0	.5	.0	1.9	3.9	.0	.0	.5	.0	93.2
E	.0	.2	.3	.0	.0	.0	.0	.5	.5	1.1	.5	.0	3.6	.2	.0	93.6
SE	.3	.5	.1	.0	.0	.0	.0	1.0	.4	.4	.8	.0	1.7	.1	.0	95.8
S	.4	.3	.6	.0	.0	.0	.0	1.3	.9	.8	1.4	.1	2.3	.0	.0	93.3
SW	.5	1.1	1.0	.0	.0	.0	.0	2.6	2.1	.4	1.0	*	1.1	.3	.0	92.5
W	2.6	3.1	1.0	.0	.0	.0	.0	7.2	3.5	.5	1.3	.0	.8	.3	.0	86.4
NW	1.9	5.1	2.3	.0	.0	.0	.0	9.3	2.0	.8	2.6	.0	1.2	.0	.0	84.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	1.1	.4	.0	.0	.0	.0	2.5	.0	4.9	6.0	.0	3.5	.0	.0	83.2
TOT PCT	.8	1.3	.8	.0	.0	.0	.0	3.0	1.4	.9	1.6	*	1.8	.1	.0	91.3
TOT OBS:	4807															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	BLWG SNOW	SPRAY DUST	
0000	1.7	1.7	1.3	.0	.0	.0	.0	4.7	1.4	2.7	1.5	.0	.9	.0	.0	89.0
0600	1.4	1.6	1.2	.0	.0	.0	.0	4.0	2.1	.4	3.0	.0	1.8	.1	.0	88.6
1200	.3	1.4	.4	.0	.0	.0	.0	2.1	1.0	.0	1.3	.1	2.3	.2	.0	93.0
1800	.3	.8	.3	.0	.0	.0	.0	1.3	.7	.7	.8	.0	2.5	.2	.0	93.8
TOT PCT	.9	1.4	.8	.0	.0	.0	.0	3.0	1.3	.9	1.6	*	1.9	.1	.0	91.1
TOT OBS:	5057															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.5	.5	.1	*	.0		1.2	10.8		1.1	1.6	1.7	.7	1.5	.8	.6	.5
NE	.1	.6	.5	.1	*	.0		1.3	11.0		1.2	1.6	2.3	3.8	1.1	.7	.5	1.4
E	.2	2.9	4.1	1.7	*	.0		9.1	15.6		8.9	10.2	12.3	9.7	9.0	7.2	7.0	10.6
SE	.9	5.4	8.8	5.2	.9	*		21.2	16.7		23.0	23.0	18.9	17.9	19.2	22.8	22.5	18.8
S	1.0	8.2	10.9	3.8	.5	*		24.3	14.5		25.2	20.3	23.0	29.3	23.3	23.7	27.8	29.3
SW	.9	7.8	8.0	2.1	.3	*		19.0	12.8		17.8	15.5	15.8	21.5	20.3	21.5	21.8	26.1
W	.8	4.2	5.0	2.3	.8	.1		13.3	15.5		11.6	12.5	14.0	14.8	14.9	12.8	13.0	11.1
NW	.9	2.5	1.8	.9	.3	*		6.5	12.9		5.2	6.3	6.7	2.3	8.4	9.8	4.6	2.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0							4.0	.0		6.0	8.8	5.4	.0	2.3	.8	2.3	.0
TOT OBS	868	3104	3834	1567	292	21	9686		14.1		1712	1064	1697	144	2106	978	1893	92
TOT PCT	9.0	32.0	39.6	16.2	3.0	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-15	17-27	28-40	00 03					06 09	12 15	18 21		
N	.5	.5	.2	*	*		1.2	10.8		1.3	1.6	1.3	.6	
NE	.4	.6	.3	*	*		1.3	11.0		1.4	2.4	1.0	.5	
E	1.1	3.8	3.5	.6	.1		9.1	15.6		9.4	12.1	8.4	7.1	
SE	2.8	7.8	7.8	2.6	.2		21.2	16.7		23.0	18.8	20.3	22.3	
S	3.8	11.3	7.4	1.7	.1		24.3	14.5		23.3	23.5	23.4	27.9	
SW	4.1	9.5	4.6	.8	.1		19.0	12.8		16.9	16.3	20.7	22.0	
W	2.6	5.2	3.6	1.5	.2		13.3	15.5		11.9	14.0	14.2	12.9	
NW	2.2	2.3	1.4	.5	.1		6.5	12.9		5.6	6.3	8.8	4.5	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	4.0						4.0	.0		7.1	4.9	1.8	2.2	
TOT OBS	2078	3965	2793	763	87	9686		14.1		2776	1841	3084	1985	
TOT PCT	21.5	40.9	28.8	7.9	.9		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1878-1976
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	7.1	5.2	33.0	35.5	16.5	2.6	.3	13.4	100.0	2776
00009	4.9	6.1	33.5	39.7	13.3	2.3	.2	13.2	100.0	1841
12015	1.8	4.5	31.3	42.3	16.6	3.3	.2	14.7	100.0	3084
18021	2.2	4.5	30.4	41.1	17.8	3.8	.3	15.0	100.0	1985
TOT	386	482	3104	3874	1567	292	.1	14.1		9686
PCT	4.0	5.0	32.0	39.6	16.2	3.0	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & Obscd	TOTAL OBS	MEAN CLOUD COVER
N	.4	*	.3	.3	4.9	.1
NE	.5	.2	.1	.1	3.2	.0
E	4.7	1.5	2.3	.8	3.1	.0
SE	9.7	3.2	3.7	1.5	2.9	*
S	13.9	5.4	7.0	3.1	3.3	.1
SW	7.1	4.6	6.9	2.4	4.0	*
W	3.4	3.3	4.9	2.6	4.7	.1
NW	1.1	.7	1.4	1.0	4.9	.2
VAR	.0	.0	.0	.0	.0	.0
CALM	.8	.4	.3	.1	2.9	*
TOT OBS	1285	596	830	372	3083	13
TOT PCT	41.7	19.3	26.9	12.1	100.0	.4

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.1	*	.1	.1	*	.2	.1	.0	.0	.0	.4	
.0	.0	*	*	.1	.1	.0	.0	.0	.0	.8	
.0	.0	.1	.6	.6	.5	.3	*	.0	.1	7.0	
*	*	.2	.7	1.5	1.2	.5	*	.0	.1	13.9	
*	.1	.3	1.7	3.0	1.8	.6	.2	*	.1	21.5	
*	*	.1	1.0	2.8	2.3	.6	.1	.0	*	14.0	
.1	.0	.2	1.1	2.8	1.3	.4	.2	.0	.1	8.1	
.2	.0	.1	.3	.6	.7	*	.0	*	*	2.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	.0	.0	*	.1	.1	.1	*	.0	.0	1.3	
13	5	37	170	355	249	77	21	2	15	2139	3083
.4	.2	1.2	5.5	11.5	8.1	2.5	.7	.1	.5	69.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50 YD	> 0
> 6500	.5	.5	.5	.5	.5	.5	.5	.5
> 5000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
> 3500	3.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7
> 2000	10.2	11.5	11.7	11.7	11.7	11.7	11.7	11.7
> 1000	19.3	22.8	23.2	23.3	23.3	23.3	23.3	23.3
> 600	23.4	28.0	28.6	28.7	28.7	28.7	28.7	28.7
> 300	23.7	28.9	29.8	29.9	29.9	29.9	29.9	30.0
> 150	23.8	29.1	30.0	30.1	30.1	30.1	30.1	30.1
> 0	23.8	29.1	30.2	30.4	30.4	30.5	30.5	30.6
TOTAL	746	912	945	951	951	955	955	957

TOTAL NUMBER OF OBS: 3129

PCT FREQ NH < 5/8: 69.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	Obscd	TOTAL OBS
18.8	18.8	13.4	10.7	7.3	5.5	7.7	7.7	9.9	.3	3331

PERIOD: (PRIMARY) 1878-1976
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.1	.1	.1	.1	.0	.2	.6	
	TOT %	.1	.0	.0	.0	.1	.1	.1	.1	.0	.2	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	*	.0	.0	*	*	.0	.2	.3	
	TOT %	*	.0	.0	*	.0	.0	*	*	.0	.2	.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	NO PCP	*	*	.2	.2	.1	.1	.1	.1	.0	.2	1.0	
	TOT %	*	*	.2	.2	.1	.1	.1	.1	.0	.2	1.0	
2<5	PCP	.0	.0	.0	*	.1	*	.2	*	.0	.0	.4	
	NO PCP	.1	*	*	.1	.2	.1	.1	.1	.0	.0	.7	
	TOT %	.1	*	*	.1	.2	.2	.3	.1	.0	.0	1.1	
5<10	PCP	.1	.0	.0	.1	.2	.3	.5	.6	.0	.1	1.9	
	NO PCP	.3	.2	1.2	8.0	3.7	2.6	3.2	4.0	.0	3.7	26.7	
	TOT %	.4	.2	1.2	8.1	3.8	2.8	3.7	4.6	.0	3.8	28.6	
10+	PCP	*	*	*	*	.1	.2	.3	*	.0	.0	.7	
	NO PCP	.6	.8	6.1	12.0	20.0	15.1	8.6	2.9	.0	1.5	67.7	
	TOT %	.6	.8	6.2	12.0	20.1	15.3	8.9	3.0	.0	1.5	68.4	
TOT OBS													4803
TOT PCT		1.1	1.1	7.5	20.5	24.4	18.4	13.0	8.0	.0	5.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	*	.0	*	*	.0	.2	.2	
	4-10	*	*	*	*	.1	.1	*	*	.0	.0	.3	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	*	.0	*	*	.0	.0	.0	.1	
	TOT %	.1	*	*	.1	.1	.1	.1	.1	.0	.2	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.2	.2	
	4-10	*	.0	.0	*	.0	.0	.0	*	.0	.0	.1	
	11-21	.0	.0	*	*	*	*	*	*	.0	.0	.1	
	22+	.0	.0	.0	*	.0	*	*	.0	.0	.0	.1	
	TOT %	*	.0	*	.1	*	*	.1	*	.0	.2	.5	
1<2	0-3	.0	.0	.0	.0	.0	*	*	*	.0	.2	.3	
	4-10	*	*	*	*	.1	*	*	*	.0	.0	.2	
	11-21	.0	.0	.1	.1	.1	.1	*	*	.0	.0	.4	
	22+	.0	.0	*	*	*	.0	*	.0	.0	.0	.1	
	TOT %	*	*	.1	.1	.1	.1	.1	.1	.0	.2	1.0	
2<5	0-3	.0	*	.0	*	.0	.0	.0	.0	.0	*	.1	
	4-10	*	*	*	*	.1	.1	.1	.1	.0	.0	.4	
	11-21	.1	*	*	.1	.2	.1	.2	.1	.0	.0	.8	
	22+	.0	*	*	.1	*	*	.1	*	.0	.0	.3	
	TOT %	.1	*	.1	.3	.3	.3	.3	.2	.0	*	1.6	
5<10	0-3	*	.0	*	.8	.2	.2	.5	1.2	.0	3.2	6.1	
	4-10	.2	.1	.3	2.0	1.5	1.2	1.3	2.0	.0	.0	8.6	
	11-21	.2	.1	.5	2.4	1.3	1.0	.8	.5	.0	.0	6.7	
	22+	*	*	.3	2.2	.8	.4	.9	.3	.0	.0	4.9	
	TOT %	.3	.2	1.2	7.4	3.8	2.7	3.4	4.1	.0	3.2	26.4	
10+	0-3	.1	.1	.1	.3	.7	.7	.3	.1	.0	1.6	4.1	
	4-10	.2	.5	2.4	3.5	7.0	6.8	2.8	1.0	.0	.0	24.3	
	11-21	.3	.3	3.0	5.8	10.0	6.3	4.0	1.3	.0	.0	31.1	
	22+	*	*	1.0	3.0	2.5	1.5	1.8	.5	.0	.0	10.4	
	TOT %	.6	.9	6.6	12.6	20.3	15.4	9.0	3.0	.0	1.6	69.9	
TOT OBS													5635
TOT PCT		1.1	1.1	8.0	20.5	24.8	18.6	12.9	7.4	.0	5.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.7	.0	1.4	6.1	10.8	7.9	2.9	.7	.0	.9	31.5	68.5	693
06009	.8	.1	1.7	7.6	14.0	8.3	2.2	1.0	.0	.6	36.3	63.8	880
12015	.1	.3	.9	2.3	10.2	6.0	2.1	.7	.1	.2	23.0	77.0	894
18021	.1	.1	.8	5.1	9.2	8.8	2.5	.4	.1	.3	27.4	72.6	791
TOT	14	5	39	170	362	252	78	23	2	15	960	2298	3258
PCT	.4	.2	1.2	5.2	11.1	7.7	2.4	.7	.1	.5	29.5	70.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	.3	.8	1.4	31.6	64.5	1540
06009	.9	1.1	1.3	2.2	23.0	71.5	1352
12015	.5	.4	1.3	1.4	30.7	65.8	1706
18021	.3	.2	1.0	1.2	25.4	71.8	1289
TOT	44	29	65	91	1648	4010	5887
PCT	.7	.5	1.1	1.5	28.0	68.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.9	2.6	9.9	23.8	66.3	646
06009	.8	2.7	11.4	26.1	62.5	856
12015	.1	1.4	4.4	19.9	75.7	855
18021	.1	1.0	6.7	21.5	71.8	772
TOT	15	60	252	713	2164	3129
PCT	.5	1.9	8.1	22.8	69.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	*	.0	.0	.0	.0	.0	.0	.0	1	*
85/89	*	.1	* .0	.0	.0	.0	.0	.0	7	.2
80/84	*	.1	.1	.2	.1	*	.1	*	32	.8
75/79	.0	*	.2	.8	.6	.8	.4	.3	126	3.1
70/74	.0	*	.3	1.8	5.1	7.2	5.7	3.3	952	23.5
65/69	.0	*	.1	2.3	9.7	16.1	15.0	8.0	2081	51.3
60/64	.0	.0	.1	1.2	3.6	4.4	5.9	4.0	776	19.1
55/59	.0	.0	.0	*	.0	.1	.8	1.0	81	2.0
TOTAL	3	14	38	256	777	1163	1130	675	4056	100.0
PCT	.1	.3	.9	6.3	19.2	28.7	27.9	16.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
.0	.0	.0	.1	*	.0	.0	*	.0	.0
.0	.0	*	.4	.1	*	*	.1	.0	.1
.0	.0	.2	1.0	.4	.3	.4	.5	.0	.3
.2	.3	3.7	5.4	4.1	3.7	3.5	1.8	.0	.6
.5	.5	3.0	10.7	13.2	10.3	7.5	3.7	.0	1.9
.2	.1	.3	3.1	5.1	3.4	1.8	2.2	.0	2.8
.1	*	*	.1	.5	.2	.1	.2	.0	.8
1.0	.9	7.2	20.8	23.4	18.0	13.4	8.7	.0	6.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	74	71	66	60	57	52	65.9	2763
06009	86	76	73	67	61	58	50	67.2	1852
12015	89	81	77	70	63	60	53	69.7	3095
18021	91	77	73	68	62	59	55	67.5	1967
TOT	91	79	74	68	61	58	50	67.7	9677

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.0	14.3	24.8	32.8	24.1	80	1129
06009	.0	6.4	17.8	27.4	31.1	17.3	78	994
12015	.2	10.3	24.2	30.3	19.9	9.2	72	1224
18021	.2	5.6	18.7	30.3	28.7	16.4	77	940
TOT	4	36.1	81.1	120.8	119.2	71.1	77	4287

PERIOD: (PRIMARY) 1878-1976
(OVER-ALL) 1855-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT W FOG	W FOG
23/25	.0	.0	.0	.0	.0	.0	.1	.0	*		3	.0
20/22	.0	.0	.0	.0	*	*	.1	.1	.0	.0	6	.0
17/19	.0	.0	.0	*	.0	.1	.1	.0	.0	.0	6	.0
14/16	.0	.0	.0	.3	.1	.2	.1	.1	.0	.0	25	.0
11/13	.0	.0	.2	.4	.4	.2	.2	.1	*	.0	58	.1
9/10	.0	.0	.1	.6	.5	.3	.3	.1	.0	.0	71	.1
7/8	.0	.1	.7	1.0	.7	.5	.4	.0	.0	.0	127	.1
6	.0	.1	.6	.9	.4	.6	.1	.0	.0	.0	102	.1
5	.0	.2	.8	1.0	.8	.6	.2	.0	.0	.0	137	*
4	.0	.4	1.0	1.4	1.2	.9	*	*	.0	.0	192	.1
3	.0	.4	.9	1.2	1.6	.9	.0	.0	.0	.0	190	.1
2	*	.2	1.2	2.7	3.2	.7	.1	.0	.0	.0	312	.3
1	.0	.2	.9	2.4	5.0	.7	.0	.0	.0	.0	358	.1
0	*	.2	1.1	6.1	5.6	.5	*	.0	.0	.0	521	.2
-1	.0	*	.9	6.6	4.1	.3	.1	.0	.0	.0	459	.1
-2	.0	.1	1.6	6.4	2.3	.2	.0	.0	.0	.0	403	.1
-3	.0	*	1.4	5.4	1.3	.1	.0	.0	.0	.0	311	.1
-4	.0	.1	1.2	3.8	.5	.0	.0	.0	.0	.0	212	.0
-5	.0	*	1.9	2.0	.3	.0	.0	.0	.0	.0	160	*
-6	.0	.1	.8	1.1	.1	.0	.0	.0	.0	.0	83	.0
-7/-8	.0	.0	.2	.8	.5	.2	.0	.0	.0	.0	62	.0
-9/-10	.0	.2	.2	1.1	.0	.0	.0	.0	.0	.0	18	.0
-11/-13	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	11	.0
-14/-16	.1	*	*	.0	.0	.0	.0	.0	.0	.0	4	.0
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
TOTAL	4		626		1088		57		1		3832	
PCT	.1		2.6	16.3	43.9	28.4	6.7	1.5	.4	*	100.0	1.4

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.1	*	.0	.0	.0	.2	.1	.2	.1	.0	.0	.0	.0	.4
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.0	.2
5-6	.0	.0	.1	*	.0	.0	.1	.0	.0	*	*	.0	.0	.0	.1
7	.0	.0	*	.1	.0	.0	.1	.0	.0	.1	*	.0	.0	.0	.1
8-9	.0	.0	*	.0	.0	.0	*	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.2	.5	.1	.0	.0	.9	.1	.4	.4	*	.0	.0	.0	1.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.2
1-2	.2	1.5	.4	.0	.0	.0	2.1	.3	2.6	.7	.0	.0	.0	.0	3.6
3-4	.0	1.1	1.1	*	.0	.0	2.3	.0	1.1	2.1	.3	.0	.0	.0	3.6
5-6	.0	.3	1.2	.4	.0	.0	1.8	.0	.3	2.5	.6	.1	.0	.0	3.5
7	.0	.1	1.1	1.0	.0	.0	2.1	.0	.0	1.2	.9	.0	.0	.0	2.1
8-9	.0	.1	.4	.2	.0	.0	.7	.0	.0	.5	.5	.2	.0	.0	1.2
10-11	.0	.0	.1	*	.0	.0	.2	.0	.0	.2	.6	*	.0	.0	.8
12	.0	.0	.0	*	.0	.0	*	.0	.0	*	.3	*	.0	.0	.4
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	*	.2	.2	.0	.0	.5
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	*	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.3	4.2	1.8	.1	.0	9.8	.4	4.1	7.2	3.5	.7	.0	.0	15.9

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	*	.0	.0	.0	1.2	.3	.0	*	.0	.0	.0	.9
1-2	.4	5.9	2.1	.0	.0	.0	8.4	.5	5.1	1.5	.0	.0	.0	7.0
3-4	*	2.9	5.2	.4	.0	.0	8.5	*	2.3	3.2	.1	.0	.0	5.6
5-6	.0	.7	3.8	.7	.1	.0	5.3	.0	.7	1.9	.4	.0	.0	3.1
7	.0	.1	2.0	1.0	.1	.0	3.2	.0	.2	1.0	.0	*	.0	1.8
8-9	.0	.1	.9	.9	.2	.0	2.1	.0	*	.4	.4	*	.0	.8
10-11	.0	*	.3	.5	.2	.0	1.1	.0	*	.4	.2	*	.0	.6
12	.0	.0	.1	.3	.0	.0	.4	.0	*	.1	.1	.1	.0	.4
13-16	.0	*	.0	.2	*	.0	.3	.0	.1	*	.1	*	.0	.2
17-19	.0	.0	.0	.1	*	.0	.1	.0	.0	.0	*	.1	.0	.1
20-22	.0	.0	*	.0	*	.0	.1	.0	.0	*	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.5	14.5	4.1	.7	.0	30.6	.8	9.0	8.3	1.9	.3	.0	20.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	.1	.0	.0	.0	.9	.0	*	.0	.0	.0	.0	*	
1-2	.2	2.3	.9	.0	.0	.0	3.4	*	.5	.5	.0	.0	.0	1.1	
3-4	.0	1.2	2.6	.2	.0	.0	4.0	.0	.5	.6	.2	.0	.0	1.3	
5-6	.0	.2	1.5	.4	*	.0	2.2	.0	.1	.6	.2	.0	.0	.9	
7	.0	*	.9	.7	.2	.0	1.8	.0	*	.2	.1	.0	.0	.3	
8-9	.0	.0	.3	.6	.2	.0	1.1	.0	*	.2	.2	.0	.0	.5	
10-11	.0	*	.3	.5	.2	.0	1.0	.0	.0	.1	.1	*	.0	.1	
12	.0	.0	*	.2	*	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	*	.3	.1	.0	.5	.0	.0	*	*	.0	.0	.1	
17-19	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	*	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.4	6.7	3.0	.9	.0	15.4	*	1.2	2.1	.7	.2	.0	4.2	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	2.4	.2	.0	.0	.0	6.0	
1-2	1.8	18.1	6.1	.0	.0	.0	26.0	
3-4	.1	9.3	15.1	1.1	.0	.0	25.6	
5-6	*	2.2	11.6	2.7	.2	.0	16.8	
7	.0	.5	6.3	4.4	.3	.0	11.5	
8-9	.0	.3	2.6	2.8	.7	.0	6.4	
10-11	.0	.1	1.2	1.8	.6	.0	3.7	
12	.0	*	.2	1.1	.2	.0	1.6	
13-16	.0	.1	.1	.9	.3	.0	1.6	
17-19	.0	.0	.0	.1	.4	.0	.6	
20-22	.0	.0	*	*	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.4	33.0	43.6	15.1	3.0	.0	100.0	2059

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	3.1	4.8	3.7	3.8	1.9	1.1	.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	538
6-7	.0	.7	2.9	4.8	5.3	5.0	3.1	1.5	1.7	.7	.1	*	*	.0	.0	.0	.0	.0	.0	.0	696
8-9	.0	.1	1.0	2.5	5.1	4.1	3.3	2.2	3.0	.9	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	615
10-11	.0	.1	.6	.7	2.2	2.1	2.4	1.2	2.3	.6	.4	.0	*	.0	.0	.0	.0	.0	.0	.0	339
12-13	.0	.0	.5	.7	.8	.6	1.1	.6	1.1	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	167
>13	.0	.0	.0	.4	.5	.7	.9	.2	.5	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	92
INDET	.6	.6	.9	2.1	1.5	1.1	1.1	.4	.6	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	253
TOTAL	26	125	287	407	518	423	350	180	260	78	28	10	8	0	0	0	0	0	0	0	2700
PCT	1.0	4.6	10.6	15.1	19.2	15.7	13.0	6.7	9.6	2.9	1.0	.4	.3	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1878-1976
(OVER-ALL) 1855-1976

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WJ PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.5	3.5	3.5	.0	.0	.0	.0	10.4	2.6	3.5	11.3	3.5	3.0	.0	67.4
NE	2.6	1.0	2.6	.0	.0	.0	.0	5.7	.5	2.6	5.2	4.1	.5	.0	81.3
E	1.1	.5	1.1	.0	.0	.0	.0	2.3	.6	1.1	1.9	.0	3.5	.2	90.4
SE	.7	.6	.6	.0	.0	.0	.0	1.8	.6	.8	1.9	.0	3.2	.1	91.6
S	1.0	1.1	1.3	.0	.0	.0	.0	3.2	1.5	.7	1.8	.1	2.7	.0	90.1
SW	.7	1.6	1.8	.0	.0	.0	.0	4.1	3.0	.3	1.7	.0	1.3	.0	89.6
W	2.7	1.5	1.7	.0	.0	.0	.0	5.8	3.8	.5	1.7	.0	2.1	.0	86.2
NW	2.3	1.2	.8	.0	.0	.0	.0	4.4	4.4	1.2	5.5	.0	1.4	.0	83.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.0	3.0	.0	.0	.0	.0	4.9	.0	2.0	12.8	.0	1.5	.0	78.8
TOT PCT	1.3	1.1	1.3	.0	.0	.0	.0	3.5	1.8	.8	2.8	.1	2.4	.1	88.4
TOT OBS:	3766														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WJ PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.3	1.3	1.9	.0	.0	.0	.0	4.5	.9	2.5	3.7	.1	1.1	.1	87.4
06009	1.7	.7	1.7	.0	.0	.0	.0	3.9	3.1	.2	4.7	.3	2.4	.0	85.4
12015	1.6	1.1	.8	.0	.0	.0	.0	3.4	1.3	.0	1.8	.0	3.2	.1	90.2
18021	1.0	1.2	.8	.0	.0	.0	.0	2.7	2.0	.5	1.6	.1	3.0	.0	90.0
TOT PCT	1.4	1.1	1.3	.0	.0	.0	.0	3.6	1.8	.8	3.0	.1	2.4	.1	88.3
TOT OBS:	3985														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.7	.6	.2	*	*		1.7	11.8	1.7	1.7	1.6	3.5	2.2	1.4	1.4	2.4	
NE	.2	.8	.6	.2	*	.0		1.8	11.1	1.2	2.3	2.4	4.0	2.1	1.6	.8	4.9	
E	.5	3.5	6.0	2.6	.4	*		13.0	15.9	13.6	14.7	14.0	8.2	13.1	11.1	11.6	11.9	
SE	.8	6.1	10.2	5.3	.9	.2		23.5	16.6	25.6	26.3	20.8	20.4	21.8	26.1	23.6	17.4	
S	1.0	8.2	10.4	3.6	.4	.0		23.5	14.2	23.6	19.7	24.3	29.6	21.6	24.2	26.2	29.0	
SW	.9	6.8	6.3	1.9	.2	*		16.1	12.7	15.8	14.1	13.7	18.4	16.4	17.8	18.4	18.0	
W	.7	3.7	4.4	1.8	.2	*		10.9	14.2	10.0	8.6	11.4	11.7	12.7	9.8	11.0	9.1	
NW	.9	2.1	1.8	.8	.2	*		5.8	12.5	4.2	5.8	6.7	3.3	7.3	6.5	4.7	4.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.6							3.6	.0	4.3	6.8	5.1	.9	2.7	1.5	2.3	2.4	
TOT OBS	680	2458	3102	1270	178	26	7714		14.0	1397	862	1347	113	1693	733	1487	82	
TOT PCT	8.8	31.9	40.2	16.5	2.3	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.5	.8	.4	*	*		1.7	11.8	1.7	1.7	2.0	1.4	
NE	.6	.8	.3	.1	.0		1.8	11.1	1.6	2.5	2.0	1.0	
E	1.9	5.1	4.7	1.1	.1		13.0	15.9	14.0	13.5	12.5	11.6	
SE	3.2	9.1	8.2	2.7	.3		23.5	16.6	25.9	20.8	23.1	23.3	
S	3.8	11.2	7.0	1.5	*		23.5	14.2	24.7	24.7	22.4	26.3	
SW	3.4	8.1	3.9	.7	*		16.1	12.7	15.2	14.1	16.8	18.4	
W	2.4	4.5	3.2	.7	.1		10.9	14.2	9.5	11.4	11.8	10.9	
NW	2.0	2.2	1.2	.4	.1		5.8	12.5	4.8	6.5	7.1	4.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.6						3.6	.0	5.3	4.8	2.3	2.3	
TOT OBS	1646	3214	2236	562	56	7714		14.0	2259	1460	2426	1569	
TOT PCT	21.3	41.7	29.0	7.3	.7		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1878-1976
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AREA 0019 CAPE TOWN
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	5.3	5.5	31.7	37.9	16.2	2.8	.5	13.9	100.0	2259
06009	4.8	4.8	33.8	38.8	15.5	2.1	.2	13.5	100.0	1460
12015	2.3	5.9	30.0	42.3	17.2	2.1	.2	14.2	100.0	2426
18021	2.3	3.9	33.1	41.6	16.5	2.2	.4	14.4	100.0	1569
TOT	281	399	2458	3102	1270	178	76	14.0		7714
PCT	3.6	5.2	31.9	40.2	16.5	2.3	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & ObsCD	TOTAL Obs	MEAN CLOUD COVER
N	.4	.2	.4	.7		5.4
NE	.5	.1	.3	.3		4.0
E	6.2	2.1	3.3	1.1		3.2
SE	9.9	2.9	4.9	2.3		3.3
S	12.2	4.3	7.6	3.9		3.7
SW	4.8	3.7	5.7	3.0		4.5
W	3.7	2.6	4.8	2.0		4.4
NW	1.1	.8	2.1	.5		4.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.3	.2		2.9
TOT OBS	1020	438	757	360	2575	3.8
TOT PCT	39.6	17.0	29.4	14.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.2	.3	.1	.0	.0	.0	.0	.7	
NE	.1	.0	.1	.2	.1	.1	.0	.0	.0	.0	.8	
E	.0	.0	.1	.7	1.4	.7	.3	*	.0	.1	9.4	
SE	.1	*	*	1.0	2.6	1.3	.2	.1	*	.2	14.4	
S	.1	*	.3	2.1	4.0	2.2	.6	.1	.1	.1	18.4	
SW	*	*	.2	1.5	3.0	2.0	.3	*	*	*	10.1	
W	*	*	.2	1.3	2.1	1.1	.2	.1	.0	.1	8.0	
NW	.0	.0	.0	.4	.8	.4	.1	*	*	.1	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	*	.2	.1	.0	.0	.0	*	1.2	
TOT OBS	14	4	27	192	372	204	45	9	5	15	1688	2575
TOT PCT	.5	.2	1.0	7.5	14.4	7.9	1.7	.3	.2	.6	65.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	.8	.8	.8	.8	.8	.8	.8
>5000	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.2
>3500	2.6	2.8	2.8	2.9	2.9	2.9	2.9	2.9
>2000	9.1	10.2	10.5	10.5	10.6	10.7	10.7	10.7
>1000	20.4	24.2	24.6	24.8	24.9	25.0	25.0	25.0
>600	24.8	30.9	31.8	32.0	32.2	32.3	32.3	32.3
>300	25.1	31.8	33.0	33.1	33.3	33.4	33.4	33.4
>150	25.1	31.8	33.1	33.3	33.4	33.6	33.6	33.6
>0	25.1	32.0	33.3	33.6	33.8	34.0	34.2	34.2
TOTAL	662	844	879	886	890	897	901	901

TOTAL NUMBER OF OBS: 2637

PCT FREQ NH <5/8: 65.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	ObsCD	TOTAL OBS
	17.0	17.2	13.5	9.7	8.1	6.4	7.3	8.7	11.5	.5	2768

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PERIOD: (PRIMARY) 1878-1976
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	*	*	.1	*	.1	.2	.0	.3	1.0	
	TOT %	.1	.1	.1	*	.1	*	.1	.2	.0	.3	1.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	.0	.1	.1	.1	.0	.0	.1	.0	.3	.7	
	TOT %	*	.0	.1	.1	.1	.0	.0	.1	.0	.3	.7	
1<2	PCP	*	.0	.0	.0	.0	.1	*	*	.0	.0	.1	
	NO PCP	.0	.0	.1	.3	.2	.1	.1	.1	.0	.1	1.0	
	TOT %	*	.0	.1	.3	.2	.2	.1	.1	.0	.1	1.1	
2<5	PCP	*	*	*	*	.1	.1	.1	*	.0	.0	.5	
	NO PCP	.0	*	.2	.3	.2	.1	.2	.1	.0	.1	1.3	
	TOT %	*	*	.3	.4	.3	.3	.3	.1	.0	.1	1.8	
5<10	PCP	.1	*	.1	.3	.4	.3	.3	.2	.0	.2	2.0	
	NO PCP	.4	.3	2.1	8.2	4.7	2.5	2.0	2.6	.0	3.5	26.3	
	TOT %	.5	.3	2.2	8.5	5.1	2.7	2.3	2.8	.0	3.7	28.3	
10+	PCP	.1	.0	.1	*	.2	.1	.2	*	.0	*	.8	
	NO PCP	.8	.9	7.9	13.3	18.9	11.9	8.6	3.2	.0	.9	66.4	
	TOT %	.8	.9	8.0	13.3	19.1	12.1	8.8	3.2	.0	1.0	67.2	
TOT OBS													3760
TOT PCT		1.5	1.3	10.7	22.7	24.9	15.3	11.6	6.5	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	*	.1	.0	.3	.5	
	4-10	.1	*	*	*	.1	*	*	.1	.0		.4	
	11-21	*	*	*	*	.1	.0	*	*	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	*	*	.1	.2	*	.1	.2	.0	.3	1.0	
1/2<1	0-3	.0	.0	.0	*	*	.0	.0	*	.0	.2	.3	
	4-10	*	.0	.0	*	*	.0	.0	*	.0		.1	
	11-21	*	.0	*	.1	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	*	*	*	.0	.0	*	.0		.1	
	TOT %	.1	.0	*	.1	.1	.0	.0	*	.0	.2	.6	
1<2	0-3	.0	.0	.0	.0	*	*	.0	*	.0	.1	.2	
	4-10	*	*	*	.1	.1	*	*	*	.0		.4	
	11-21	.0	.0	*	.1	.1	*	*	.0	.0		.3	
	22+	*	.0	*	*	*	*	.0	*	.0		.1	
	TOT %	.1	*	.1	.3	.2	.2	.1	.1	.0	.1	1.1	
2<5	0-3	*	.0	.0	.0	*	*	.0	*	.0	.1	.2	
	4-10	.0	.0	.1	.1	.1	.1	*	*	.0		.5	
	11-21	*	*	.1	.2	.2	.1	.2	.1	.0		1.0	
	22+	.0	.0	*	.1	.1	*	.1	*	.0		.3	
	TOT %	.1	*	.3	.4	.3	.3	.3	.2	.0	.1	2.0	
5<10	0-3	.1	*	.1	.6	.3	.3	.3	1.1	.0	3.2	5.9	
	4-10	.1	.2	.5	2.4	1.8	1.0	.9	1.0	.0		7.8	
	11-21	.2	.1	1.0	3.0	2.0	.9	.7	.4	.0		8.4	
	22+	.1	*	.6	1.8	.9	.5	.4	.1	.0		4.2	
	TOT %	.5	.3	2.1	7.7	4.9	2.7	2.3	2.6	.0	3.2	26.3	
10+	0-3	.1	.1	.3	.2	.5	.5	.4	.1	.0	1.1	3.3	
	4-10	.3	.3	2.5	3.9	6.9	5.9	2.7	1.2	.0		23.6	
	11-21	.3	.3	4.3	6.4	9.2	4.7	4.1	1.6	.0		31.0	
	22+	.1	.1	1.7	3.1	2.6	1.3	1.6	.4	.0		11.1	
	TOT %	.9	.8	8.8	13.7	19.2	12.4	8.8	3.3	.0	1.1	69.0	
TOT OBS													4496
TOT PCT		1.6	1.2	11.5	22.2	24.9	15.6	11.5	6.5	.0	5.0	100.0	

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PERIOD: (PRIMARY) 1878-1976
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.8	.2	1.4	6.5	14.1	6.7	2.1	.2	.0	1.1	33.1	66.9	629
06609	.6	.1	1.0	10.5	17.6	10.1	2.6	.3	.1	.3	43.3	56.7	683
12615	.6	.1	.6	5.2	10.5	6.1	1.7	.3	.1	.4	25.6	74.4	724
18621	.3	.1	1.5	6.6	13.5	7.5	.4	.6	.6	.6	31.6	68.4	683
TOT	15	4	30	196	377	206	46	9	6	16	905	1814	2719
PCT	.6	.1	1.1	7.2	13.9	7.6	1.7	.3	.2	.6	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	1.6	.5	.3	1.8	30.4	65.3	1294
06609	1.3	1.1	1.3	2.2	24.4	69.7	1065
12615	.9	.5	1.5	1.6	29.6	65.9	1309
18621	1.0	.7	1.1	2.3	27.0	67.9	1051
TOT	57	32	50	91	1325	3164	4719
PCT	1.2	.7	1.1	1.9	28.1	67.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	.9	2.6	10.7	25.2	64.1	587
06609	.6	2.2	14.6	29.9	55.6	673
12615	.6	1.7	8.2	18.5	73.3	708
18621	.3	2.5	10.2	23.5	66.4	669
TOT	15	59	287	637	1713	2637
PCT	.6	2.2	10.9	24.2	65.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	*	.0	.2	.0	*	.0	.0	7	.2
80/84	.0	*	.1	.3	.2	.1	*	.0	28	.9
75/79	.0	.0	.1	.8	1.0	1.3	.5	.2	127	3.9
70/74	.0	.0	.2	.9	3.7	6.4	7.5	4.0	739	22.7
65/69	.0	*	.1	2.3	8.8	13.8	16.5	9.9	1671	51.3
60/64	.0	.0	.1	.9	2.9	3.3	5.9	5.9	616	18.9
55/59	.0	.0	.0	.0	.2	.3	.8	.7	65	2.0
50/54	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	3	18	174	544	821	1018	677	3255	100.0
PCT	.0	.1	.6	5.3	16.7	25.2	31.3	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	.1	.0	.0	*	*	.0	.1
.0	.0	.1	.5	.0	.0	*	*	.0	.1
*	.1	.5	1.4	.3	.4	.5	.4	.0	.4
.1	.3	4.2	5.9	3.9	2.7	2.8	1.6	.0	1.1
.9	.5	4.9	10.8	13.3	8.8	6.9	3.4	.0	1.9
.4	.2	.9	3.6	6.5	3.2	1.2	.9	.0	2.1
.0	.0	.0	.4	.7	.2	*	.1	.0	.6
*	.0	.0	.0	.0	.0	.0	*	.0	*
1.5	1.0	10.5	22.6	24.7	15.4	11.5	6.6	.0	6.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	85	75	72	67	60	57	50	66.4	2251
06609	87	76	73	67	61	58	55	67.2	1463
12615	85	80	77	70	63	60	55	69.7	2435
18621	85	77	73	68	61	58	50	67.4	1577
TOT	87	78	74	68	61	58	50	67.8	7726

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	3.1	13.8	22.8	32.7	27.5	81	933
06609	.0	4.1	15.6	23.9	34.8	21.6	80	774
12615	.0	12.8	22.0	26.9	27.2	11.2	74	949
18621	.0	4.4	15.0	25.7	31.8	23.2	80	802
TOT	0	217	579	859	1087	716	79	3458

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PERIOD: (PRIMARY) 1878-1976
(OVER-ALL) 1855-1976

TABLE 17

AREA 0019 CAPE TOWN
34.25 18.5EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	*	*	*	*	3	.0	.1
20/22	.0	.0	.0	.0	.0	.0	*	.2	*	*	7	.0	.2
17/19	.0	.0	.0	.0	.0	*	.0	.2	*	*	9	.0	.3
14/16	.0	.0	.0	*	*	.2	.3	.1	.1	*	25	.1	.7
11/13	.0	.0	.0	.1	.5	.5	.5	.1	.1	*	57	*	1.7
9/10	.0	.0	*	.3	.5	.6	.3	.1	.0	.0	60	.1	1.7
7/8	.0	.0	.2	.8	1.3	.7	.5	.2	.0	.0	122	.2	3.5
6	.0	.0	.1	.4	.6	.4	.2	.2	.0	.0	63	.1	1.8
5	.0	.0	.3	1.2	1.2	1.0	.8	.2	.0	.0	158	.3	4.5
4	.0	*	.5	1.6	1.2	.9	.9	.1	.0	.0	171	.3	4.9
3	.0	.0	.3	1.2	1.2	1.4	.7	*	.0	.0	157	.2	4.5
2	.0	.0	.2	1.2	2.4	2.5	1.0	.0	.0	.0	245	.2	7.2
1	.0	*	.4	1.0	2.4	4.4	.7	.0	.0	.0	295	.3	8.6
0	.0	.1	.2	.9	4.5	6.2	.6	*	.0	.0	412	.4	12.1
-1	.0	*	.1	.6	4.9	5.0	.2	.0	.0	.0	358	.1	10.7
-2	.0	.0	.1	1.0	6.9	2.7	.1	.0	.0	.0	355	.1	10.6
-3	*	.0	*	1.2	5.7	1.2	*	.0	.0	.0	268	.1	8.1
-4	.0	.0	.2	1.4	3.9	.4	*	.0	.0	.0	196	.1	5.9
-5	.0	.0	.2	1.8	2.5	.3	*	.0	.0	.0	160	.1	4.8
-6	.0	.0	.2	1.2	1.0	*	.0	.0	.0	.0	77	*	2.3
-7/-8	.0	.0	.2	1.0	.9	.0	.0	.0	.0	.0	67	.0	2.0
-9/-10	.0	.0	.1	.5	.1	.0	.0	.0	.0	.0	22	*	.6
-11/-13	.0	.0	.1	.1	.0	*	.0	.0	.0	.0	6	.0	.2
-14/-16	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	5	*	.1
TOTAL	1	5	110	579	935	40	5	3298	92	3206			
PCT	*	.2	3.3	17.6	41.8	28.4	7.1	1.2	.4	.2	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	.1	.0	.0	.0	.0	.1	.1	.2	*	.0	.0	.0	.2
1-2	.0	.3	.2	.0	.0	.0	.4	.0	.2	.1	.0	.0	.0	.2
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.3	.1	.0	.0	.0	.4
5-6	.0	.0	.4	.1	.0	.0	.5	.0	.0	.3	*	.0	.0	.3
7	.0	.0	.1	.2	.0	.0	.2	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.1	.0	.0	.1
10-11	.1	.0	.0	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.3	.9	.3	.0	.0	1.6	.1	.6	.6	.2	.0	.0	1.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	*	.0	.0	.0	.3	.1	.5	.1	.0	.0	.0	.6
1-2	.2	2.3	.6	.0	.0	.0	3.1	.1	2.6	1.2	.0	.0	.0	3.9
3-4	.0	.6	2.7	.5	.0	.0	4.0	.0	1.5	3.0	.3	.0	.0	4.8
5-6	.0	.3	2.0	.3	.1	.0	2.7	.0	.2	2.5	.7	.1	.0	3.5
7	.0	.1	.9	.7	.1	.0	1.7	.0	.1	1.4	1.3	.2	.0	3.1
8-9	.0	.0	.3	.7	.1	.0	1.1	.0	.1	.4	1.0	.1	.0	1.6
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.3	.5	.2	.0	1.0
12	.0	.0	.0	*	.2	.0	.2	.0	.0	.0	.4	*	.0	.4
13-16	.0	.0	.0	.3	.2	.1	.6	.0	.0	.1	.4	.2	.1	.8
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.7	6.7	2.7	.6	.1	14.1	.1	5.0	9.0	4.6	1.0	.1	19.8

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0019 CAPE TOWN
34.25 18.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	.7	.0	.0	.0	.0	1.2	.*	.4	.0	.0	.0	.0	.4	
1-2	.3	5.0	1.3	.0	.0	.0	6.6	.*	4.4	1.0	.0	.0	.0	5.4	
3-4	.0	3.4	5.0	.5	.0	.0	8.9	.0	1.9	2.2	.6	.0	.0	4.8	
5-6	.0	.5	4.4	1.0	.0	.0	9.8	.1	.4	2.2	.4	.0	.0	3.2	
7	.0	.1	1.8	.9	.1	.0	2.8	.0	.2	.8	.3	.0	.0	1.4	
8-9	.0	.1	.4	.9	.*	.0	1.5	.0	.*	.4	.4	.1	.0	.9	
10-11	.0	.0	.4	.8	.2	.0	1.4	.0	.0	.1	.2	.0	.0	.3	
12	.0	.0	.1	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.*	.0	.3	.0	.0	.1	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	9.7	13.5	4.6	.4	.0	29.0	.2	7.3	6.8	2.2	.1	.0	16.5	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.4	.1	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.1		
1-2	.2	2.1	.8	.0	.0	.0	3.1	.1	.6	.2	.0	.0	.0	.9		
3-4	.0	1.0	1.9	.2	.0	.0	3.0	.0	.7	.8	.0	.0	.0	1.5		
5-6	.0	.3	1.9	.4	.0	.0	2.6	.0	.2	.5	.1	.0	.0	.8		
7	.0	.*	1.2	.5	.1	.0	1.8	.0	.0	.*	.1	.0	.0	.1		
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.1	.*	.1	.0	.2		
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1		
13-16	.0	.0	.*	.*	.0	.0	.1	.0	.0	.0	.1	.1	.0	.1		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	3.8	6.2	1.9	.1	.0	12.1	.1	1.6	1.7	.4	.1	.0	4.0		

98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	2.7	.2	.0	.0	.0	5.6	
1-2	1.1	17.7	5.4	.0	.0	.0	24.2	
3-4	.0	9.3	15.6	2.1	.0	.0	27.1	
5-6	.1	1.9	13.9	3.1	.2	.0	19.2	
7	.0	.5	6.2	4.0	.4	.0	11.1	
8-9	.0	.2	2.0	3.4	.3	.0	6.0	
10-11	.1	.0	1.0	1.9	.4	.0	3.3	
12	.0	.0	.1	.9	.2	.0	1.2	
13-16	.0	.0	.2	1.1	.5	.2	2.0	
17-19	.0	.0	.1	.0	.1	.0	.2	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.0	32.3	44.7	16.6	2.2	.2	100.0	1655

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	3.2	5.7	4.3	4.5	1.6	1.0	.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	492	5
6-7	.0	.4	3.2	5.6	5.9	3.8	3.5	1.9	1.9	.2	.3	.0	.*	.0	.0	.0	.0	.0	.0	605	8
8-9	.0	.2	1.0	2.9	4.7	4.5	4.4	2.7	2.2	.4	.3	.0	.*	.0	.0	.0	.0	.0	.0	526	9
10-11	.0	.*	.4	1.2	2.0	1.9	2.0	1.3	1.5	.5	.1	.*	.0	.0	.0	.0	.0	.0	.0	246	9
12-13	.0	.0	.7	.3	.8	.9	1.0	.7	.8	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	138	10
>13	.0	.0	.0	.4	.4	.4	.3	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	60	11
INLET	.7	.6	1.2	1.6	1.5	.8	1.1	.3	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	189	6
TOTAL	22	100	275	364	445	314	301	171	179	50	30	3	2	0	0	0	0	0	0	2256	8
PCT	1.0	4.4	12.2	16.1	19.7	13.9	13.3	7.6	7.9	2.2	1.3	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1876-1976
(OVER-ALL) 1895-1976

MARCH

AREA 0019 CAPE TOWN
34.25 18.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	5.9	4.6	.0	.0	.0	.0	10.5	1.3	2.0	7.8	1.3	.7	.0	76.5
NE	1.2	.3	.0	.0	.0	.0	.0	2.2	.3	.6	8.7	.0	.6	.0	87.5
E	.3	.8	1.1	.0	.0	.0	.0	2.0	1.1	1.8	.9	.2	1.8	.0	92.2
SE	.6	.9	.4	.0	.0	.0	.0	1.9	.5	.8	2.9	.2	1.7	.3	91.9
S	1.0	.4	.7	.0	.0	.0	.0	2.0	.7	.7	3.4	.1	2.1	.2	90.9
SW	2.0	1.9	2.1	.0	.0	.0	.0	5.8	2.2	.8	2.6	.6	1.9	.2	85.9
W	1.8	1.7	1.0	.0	.0	.0	.0	4.5	2.2	.4	1.9	.0	1.8	.0	89.0
NW	5.0	1.8	1.4	.0	.0	.0	.0	8.3	1.3	1.1	6.3	.0	1.1	.0	82.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	.6	.3	.0	.0	.0	.0	3.4	.0	4.0	11.2	.0	4.3	.0	77.0
TOT PCT	1.3	1.1	1.0	.0	.0	.0	.0	3.3	1.0	1.1	3.6	.2	2.0	.1	88.7
TOT OBS:	4600														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.8	1.4	1.3	.0	.0	.0	.1	4.3	.8	3.4	4.1	.0	1.0	.0	86.6
0600	1.5	1.1	1.0	.0	.0	.0	.0	3.6	1.2	.3	4.6	.5	2.1	.4	87.3
1200	.9	1.0	.8	.0	.0	.0	.0	2.6	.7	.0	3.5	.1	3.0	.1	89.9
1800	1.2	.8	.7	.0	.0	.0	.0	2.7	1.3	.9	3.0	.1	1.8	.0	90.2
TOT PCT	1.4	1.1	1.0	.0	.0	.0	*	3.3	1.0	1.1	3.8	.2	2.0	.1	88.5
TOT OBS:	4809														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	1.1	.5	.1	*	.0		2.1	9.4		1.8	2.3	3.1	1.4	2.5	1.7	1.1	2.6
NE	.3	1.0	.8	.3	*	*		2.4	11.6		2.5	2.5	3.7	1.2	2.4	1.6	1.5	2.3
E	.5	5.3	5.8	2.9	.4	*		12.9	15.9		13.6	12.6	14.7	15.5	12.9	10.5	11.3	19.6
SE	1.0	6.8	10.2	4.7	.8	*		23.6	15.6		24.9	22.8	21.2	22.2	23.0	24.7	25.1	23.7
S	1.1	8.2	9.5	2.9	.2	*		22.0	13.3		24.1	19.8	21.2	23.1	20.5	20.6	24.5	18.3
SW	1.1	6.1	5.1	1.5	.2	*		14.0	12.3		12.1	13.9	12.4	11.8	13.7	17.3	16.1	10.8
W	.9	4.7	4.1	1.4	.3	.1		11.6	13.0		9.3	10.4	10.9	16.5	13.8	12.3	11.3	15.7
NW	1.2	2.5	1.8	.7	.2	*		6.4	11.3		5.6	7.5	6.2	8.3	7.3	8.3	4.6	3.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2							5.2	.0		6.2	8.1	6.5	.0	3.8	3.0	4.5	3.1
TOT OBS	1115	3209	3593	1367	204	18	9506		13.1		1662	1108	1657	142	2087	948	1805	97
TOT PCT	11.7	33.8	37.8	14.4	2.1	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	18
N	.9	.9	.2	.1	.0		2.1	9.4	2.0	3.0	2.2	1.2	
NE	.7	1.0	.6	.1	*		2.4	11.6	2.5	3.5	2.2	1.5	
E	1.9	5.1	4.6	1.3	.1		12.9	15.9	13.2	14.8	12.2	11.7	
SE	3.4	9.5	8.3	2.1	.2		23.6	15.6	24.1	21.3	23.5	25.1	
S	4.5	10.4	6.2	.9	*		22.0	13.3	22.4	21.3	20.6	24.2	
SW	3.5	6.7	3.0	.6	.1		14.0	12.3	12.8	12.3	14.8	15.8	
W	3.0	5.4	2.4	.7	.2		11.6	13.0	9.7	11.4	13.4	11.6	
NW	2.5	2.3	1.2	.3	.1		6.4	11.3	6.3	6.4	7.6	4.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.2						5.2	.0	7.0	6.0	3.6	4.4	
TOT OBS	2423	3928	2513	578	64	9506		13.1	2770	1799	3035	1902	
TOT PCT	25.5	41.3	26.4	6.1	.7		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1876-1976
(OVER-ALL) 1855-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	0-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
WIND	0-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	7.0	7.3	32.1	36.9	14.1	2.4	.2	12.8 100.0
06004	6.0	6.5	35.7	30.3	13.7	1.6	.2	12.6 100.0
12015	3.6	6.7	33.4	38.7	15.3	2.1	.2	13.4 100.0
18021	4.4	5.2	34.9	39.1	13.9	2.4	.2	13.4 100.0
TOT	493	622	3209	3593	1367	204	18	13.1 1902
PCT	5.2	6.5	33.8	37.8	14.4	2.1	.2	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.3	.2	.6	.4	5.1	
NE	.9	.4	.4	.3	3.3	
E	7.6	3.0	3.2	1.5	3.1	
SE	12.4	3.7	6.2	2.0	3.1	
S	11.4	5.0	6.3	3.1	3.4	
SW	4.0	2.2	5.0	1.7	4.3	
W	3.9	2.4	4.1	1.9	4.3	
NW	.9	.6	1.4	.8	5.0	
VAR	.0	.0	.0	.0	.0	
CALM	1.3	.5	.3	.5	3.3	
TOT OBS	1290	543	827	369	3029	3.6
TOT PCT	42.6	17.9	27.3	12.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
*	.0	.1	.1	.1	.3	.0	*	.0	*	.7	
.1	.0	*	*	.3	.1	*	.0	.0	.0	.4	
*	.0	.2	.7	1.6	.8	.3	.0	*	*	11.6	
.1	.1	.2	.9	2.7	1.7	.5	.1	*	*	17.7	
.2	*	.4	1.0	3.3	1.6	.5	.1	.1	.1	18.4	
.1	*	.3	1.1	2.3	1.1	.3	.1	.1	.1	7.4	
.1	.0	.4	1.0	1.7	1.0	.2	.0	*	*	7.9	
*	*	*	.4	.7	.3	.1	.1	.0	.1	1.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	.0	.1	*	.4	.1	.0	.0	.0	*	1.8	
21	5	50	160	394	213	58	11	9	18	2090	3029
.7	.2	1.7	5.3	13.0	7.0	1.9	.4	.3	.6	69.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	* OR >10	* OR >5	* OR >2	VSBY (NM)	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.9	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.0	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3
* OR >3500	2.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	8.1	10.1	10.2	10.3	10.3	10.3	10.3	10.3	10.3
* OR >1000	17.6	22.3	22.9	23.0	23.1	23.1	23.1	23.1	23.1
* OR >600	21.4	27.4	28.3	28.5	28.5	28.5	28.5	28.5	28.6
* OR >300	22.3	28.8	29.9	30.1	30.1	30.2	30.2	30.2	30.2
* OR >150	22.4	29.0	30.0	30.2	30.3	30.3	30.4	30.4	30.4
* OR >0	22.5	29.1	30.4	30.6	30.8	30.9	31.1	31.1	31.1
TOTAL	696	903	941	949	955	958	964	965	965

TOTAL NUMBER OF OBS: 3100

PCT FREQ NH < 5/8: 68.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.7	18.1	12.4	10.3	6.9	6.5	7.5	7.5	9.7	.5	3281

PERIOD: (PRIMARY) 1876-1976
(OVER-ALL) 1895-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	.0	.0	.0	*	*	.0	*	.1	
	NO PCP	.1	.1	.1	.1	.2	*	*	.2	.0	.6	1.4	
	TOT %	.1	.1	.1	.1	.2	*	*	.2	.0	.6	1.5	
1/2<1	PCP	.0	.0	.0	*	*	*	*	.1	.0	*	.2	
	NO PCP	*	*	*	.1	.1	.1	.1	.2	.0	.1	.7	
	TOT %	*	*	*	.1	.2	.1	.1	.3	.0	.2	.9	
1<2	PCP	.0	*	.0	*	*	*	*	.0	.0	.0	.1	
	NO PCP	*	*	*	.1	.2	*	.1	*	.0	.2	.7	
	TOT %	*	*	*	.2	.2	*	.1	*	.0	.2	.8	
2<5	PCP	.0	.0	*	*	.1	.1	*	*	.0	.0	.3	
	NO PCP	.1	*	.1	.3	.2	.2	.1	.1	.0	*	1.2	
	TOT %	.1	*	.1	.4	.3	.3	.2	.1	.0	*	1.5	
5<10	PCP	.1	*	.2	.3	.2	.4	.3	.3	.0	.2	2.0	
	NO PCP	.5	.3	2.5	7.9	4.8	2.4	2.4	2.6	.0	4.4	27.8	
	TOT %	.6	.3	2.7	8.2	5.0	2.8	2.7	3.0	.0	4.5	29.8	
10+	PCP	*	.0	*	.1	.1	.1	.1	*	.0	.0	.5	
	NO PCP	.8	1.2	9.8	15.6	17.4	8.4	7.7	2.5	.0	1.5	65.0	
	TOT %	.8	1.2	9.9	15.7	17.6	8.6	7.9	2.5	.0	1.5	65.5	
TOT OBS													
TOT PCT													
		1.6	1.7	12.8	24.7	23.3	11.9	10.9	6.1	.0	7.0	100.0	4597

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	*	*	*	.0	.1	.0	.6	.9	
	4-10	*	.1	.1	.1	.1	.1	.1	.1	.0	.5		
	11-21	*	*	.0	*	.1	.0	.0	*	.0	.2		
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	*		
	TOT %	.1	.1	.1	.2	.2	.1	*	.2	.0	.6	1.6	
1/2<1	0-3	.0	.0	*	*	.0	*	*	.1	.0	.1	.3	
	4-10	*	.0	.0	*	.1	*	*	.1	.0	.3		
	11-21	.0	*	.0	*	*	.1	*	.0	.0	.2		
	22+	.0	.0	*	*	*	.0	.0	.0	.0	.1		
	TOT %	*	*	*	.1	.1	.1	.1	.2	.0	.1	.9	
1<2	0-3	*	*	.0	*	.0	*	*	*	.0	.1	.2	
	4-10	*	*	*	*	.1	*	.0	.0	.0	.2		
	11-21	.0	*	*	.1	.1	*	*	*	.0	.3		
	22+	*	.0	*	*	*	*	*	.0	.0	.1		
	TOT %	*	.1	*	.2	.2	.1	.1	*	.0	.1	.9	
2<5	0-3	.0	.0	*	.0	.0	.0	*	*	.0	.1	.1	
	4-10	.1	*	*	.2	.1	.1	.1	.1	.0	.7		
	11-21	*	*	.1	.1	.2	.2	.1	.1	.0	.7		
	22+	.0	.0	.1	.1	*	*	.1	*	.0	.3		
	TOT %	.1	.1	.2	.4	.3	.3	.2	.2	.0	.1	1.8	
5<10	0-3	.1	.0	*	.6	.3	.2	.3	1.2	.0	4.0	6.8	
	4-10	.3	.1	.7	2.5	1.8	1.2	1.1	1.1	.0	8.7		
	11-21	.2	.1	1.3	3.1	2.1	1.0	.8	.3	.0	8.8		
	22+	*	*	.7	1.3	.5	.4	.4	.2	.0	3.5		
	TOT %	.6	.3	2.7	7.5	4.6	2.8	2.5	2.7	.0	4.0	27.8	
10+	0-3	.1	.2	.2	.3	.6	.6	.2	.2	.0	1.6	4.2	
	4-10	.6	.5	2.3	4.7	7.0	4.5	3.8	1.3	.0	24.7		
	11-21	.2	.6	4.6	6.6	7.3	3.4	3.4	1.2	.0	27.3		
	22+	.1	.2	2.5	3.9	2.4	.7	.9	.2	.0	10.9		
	TOT %	1.0	1.5	9.6	15.6	17.3	9.2	8.3	2.9	.0	1.6	67.0	
TOT OBS													
TOT PCT													
		1.9	2.0	12.7	24.0	22.8	12.5	11.2	6.2	.0	6.6	100.0	5455

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PERIOD: (PRIMARY) 1876-1976
(OVER-ALL) 1855-1976

TABLE 10

AREA 0019 CAPE TOWN
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OCCURRENCE OF NH < 5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.0	.0	1.0	4.2	11.9	5.9	1.7	.1	.3	.4	26.5	73.5	713
06009	.5	.1	2.3	7.2	15.9	10.7	1.7	.3	.1	1.0	40.0	60.0	858
12015	.5	.2	1.5	4.8	10.3	5.7	1.5	.2	.3	.6	25.5	74.5	882
18021	1.1	.3	1.5	4.8	11.4	4.9	2.8	.7	.4	.3	27.9	72.1	756
TOT	23	5	51	170	398	221	61	11	9	19	968	2241	3209
PCT	.7	.2	1.6	5.3	12.4	6.9	1.9	.3	.3	.6	30.2	69.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.4	.8	.5	1.4	31.5	63.4	1525
06009	2.2	1.4	1.8	2.3	22.9	69.4	1295
12015	.9	1.1	.9	2.4	31.0	63.7	1610
18021	1.5	.5	.5	1.5	27.8	68.2	1236
TOT	100	54	51	107	1620	3734	5666
PCT	1.8	1.0	.9	1.9	28.6	65.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.0	2.5	7.6	21.3	71.1	672
06009	.6	3.6	12.6	28.8	58.6	840
12015	.6	2.7	9.2	18.3	72.4	856
18021	1.1	3.3	9.2	20.4	70.5	732
TOT	25	94	303	691	2106	3100
PCT	.8	3.0	9.8	22.3	67.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	*	.0	.0	.0	.0	3	.1
80/84	.1	*	.1	.1	.0	.0	.1	.0	12	.3
75/79	.0	*	.1	.4	.8	.4	.2	.1	82	2.1
70/74	.0	.0	.1	.7	2.5	5.1	7.0	3.7	740	19.1
65/69	.0	.0	.1	1.2	5.1	13.5	18.5	10.8	1908	49.2
60/64	.0	.0	.1	1.3	3.3	4.9	7.8	6.9	938	24.2
55/59	.0	.0	.0	.1	.2	.4	1.4	2.6	184	4.7
50/54	.0	.0	.0	.0	*	.0	*	.2	8	.2
TOTAL	4	2	22	146	461	942	1358	940	3875	100.0
PCT	.1	.1	.6	3.8	11.9	24.3	35.0	24.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	*	*	.0	.0	*	.0	.0
.0	.0	*	.2	.0	.0	.0	.1	.0	.1
.0	.0	.3	.9	.5	.1	*	.1	.0	.2
.1	.4	3.6	4.8	3.4	2.0	2.6	.8	.0	1.2
.8	.7	6.5	12.0	11.8	5.9	6.3	2.8	.0	2.3
.4	.3	1.0	5.8	7.1	2.8	1.0	2.0	.0	2.7
.1	.1	.2	.8	1.0	.4	.2	.0	.0	1.3
*	.0	.0	.0	.0	.0	*	.1	.0	.1
1.4	1.6	12.3	24.5	23.7	11.4	10.7	6.4	.0	7.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	72	71	65	58	55	52	65.2	2754
06009	89	74	72	66	59	56	52	65.9	1797
12015	86	79	75	68	62	58	53	68.4	3035
18021	82	74	72	66	60	57	52	66.2	1895
TOT	89	76	73	67	59	56	52	66.6	9481

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.1	3.2	10.3	21.4	34.1	31.0	82	1063
06009	.0	1.8	9.7	23.7	36.7	28.1	83	950
12015	.2	9.7	16.8	26.8	32.0	14.5	77	1140
18021	.1	3.5	10.3	24.0	36.3	25.8	81	915
TOT	4	194	487	978	1408	997	81	4068

PERIOD: (PRIMARY) 1876-1976
(OVER-ALL) 1855-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WU FOG
26/30	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	5	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	4	.0	.1
20/22	.0	.0	.0	.0	.1	.0	.2	.1	.0	.0	11	.0	.3
17/19	.0	.0	.0	.1	.3	.1	.1	.1	.0	.0	17	.1	.4
14/16	.0	.0	.1	.2	.5	.2	.1	.1	.0	.0	38	.1	.9
11/13	.0	.1	.2	.4	.6	.3	.1	.1	.0	.0	65	.1	1.6
9/10	.0	.1	.5	1.0	.4	.3	.2	.0	.0	.0	95	.1	2.4
7/8	.0	.3	1.1	1.3	1.1	.4	.1	.0	.0	.0	170	.3	5.9
6	.0	.3	.9	.8	.5	.3	.1	.0	.0	.0	116	.3	2.7
5	.1	.5	1.7	1.1	.7	.5	.1	.0	.0	.0	177	.3	4.1
4	.1	.7	1.6	1.3	.9	.4	.1	.0	.0	.0	200	.2	4.8
3	.1	1.0	1.3	1.6	1.5	.7	.1	.0	.0	.0	246	.4	5.6
2	.1	.5	1.3	2.8	2.8	.4	.1	.0	.0	.0	315	.5	7.4
1	.1	.7	1.2	4.0	4.5	.1	.0	.0	.0	.0	422	.3	10.4
0	.2	.3	1.3	5.6	4.6	.3	.0	.0	.0	.0	486	.4	11.8
-1	.0	.3	1.4	6.4	3.7	.2	.0	.0	.0	.0	477	.2	11.8
-2	.1	.2	1.4	6.2	1.2	.1	.0	.0	.0	.0	361	.2	8.9
-3	.1	.1	1.7	3.6	.8	.1	.0	.0	.0	.0	245	.1	6.1
-4	.0	.2	2.2	2.3	.1	.1	.0	.0	.0	.0	192	.1	4.7
-5	.1	.2	1.7	1.4	.2	.0	.0	.0	.0	.0	137	.1	3.4
-6	.0	.1	1.2	.4	.1	.0	.0	.0	.0	.0	67	.1	1.7
-7/-8	.1	.5	1.2	.3	.0	.0	.0	.0	.0	.0	79	.1	1.9
-9/-10	.0	.2	.3	.2	.1	.0	.0	.0	.0	.0	30	.1	.7
-11/-13	.1	.2	.1	.2	.1	.0	.0	.0	.0	.0	18	.1	.4
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1	.1
TOTAL	28	243	880	1633	965	178	34	10	4	1	3976	142	3834
PCT	.7	6.1	22.1	41.1	24.3	4.5	.9	.3	.1	*	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2	.1	.1	.1	.0	.0	.0	.2
1-2	.1	.4	.1	.0	.0	.0	.5	.1	.5	.2	.0	.0	.0	.7
3-4	.0	.1	.2	.1	.0	.0	.3	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.4	.1	.0	.0	1.3	.1	.8	.8	.1	.0	.0	1.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.1	.0	.0	.0	.5	.1	.4	.0	.0	.0	.0	.5
1-2	.2	1.9	.8	.0	.0	.0	2.9	.2	4.1	1.4	.0	.0	.0	5.7
3-4	.0	1.5	2.5	.1	.0	.0	4.1	.0	1.6	3.8	.9	.0	.0	6.3
5-6	.0	.1	2.5	.9	.1	.0	3.6	.0	.4	3.2	1.7	.1	.0	5.4
7	.0	.0	1.0	1.2	.1	.0	2.2	.0	.1	1.9	1.3	.1	.0	3.3
8-9	.0	.0	.3	.9	.0	.0	1.2	.0	.1	.4	1.1	.2	.0	1.8
10-11	.0	.0	.0	.8	.1	.0	.9	.0	.0	.2	.6	.1	.0	.9
12	.0	.0	.1	.1	.1	.1	.2	.0	.0	.1	.1	.1	.0	.2
13-16	.0	.0	.0	.2	.1	.1	.3	.0	.0	.1	.4	.2	.0	.6
17-19	.0	.0	.1	.1	.1	.1	.2	.0	.0	.0	.2	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.7	7.2	4.3	.5	.1	16.1	.3	6.6	11.0	6.3	.7	.0	24.8

PERIOD: (OVER-ALL) 1963-1976

MARCH

AREA 0019 CAPE TOWN
34.25 18.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.9	.0	.0	.0	.0		1.2	.2	.6	.0	.0	.0	.0		.8
1-2	.2	5.6	2.3	.0	.0	.0		8.2	.3	3.0	1.0	.0	.0	.0		4.2
3-4	.0	2.7	4.1	.6	.0	.0		7.4	.2	1.7	1.8	.2	.0	.0		3.7
5-6	.0	.6	3.1	.8	.1	.0		4.5	.0	.3	.9	.2	.0	.0		1.3
7	.0	.1	1.0	.8	.0	.0		1.9	.0	.0	.5	.2	.0	.0		.7
8-9	.0	.0	.3	1.0	.1	.0		1.3	.0	.1	.3	.1	.0	.0		.4
10-11	.0	.0	.2	.3	.1	.0		.5	.0	.0	.1	.3	.0	.0		.3
12	.0	.0	.1	.1	.1	.0		.3	.0	.0	.0	.2	.0	.0		.2
13-16	.0	.1	.0	.1	*	.0		.2	.0	.0	.1	.2	.0	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	10.0	11.0	3.7	.2	.0		25.4	.6	5.6	4.5	1.2	.0	.0		11.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.8	.0	.0	.0	.0		.9	.0	.1	.1	.0	.0	.0		.2	
1-2	.1	2.4	1.2	.0	.0	.0		3.7	.1	.8	.3	.0	.0	.0		1.1	
3-4	.0	1.0	1.9	.3	.0	.0		3.3	.0	.4	.6	*	.0	.0		.9	
5-6	.0	.2	1.2	.4	.0	.0		1.8	.0	.2	.4	*	.0	.0		.6	
7	.0	.1	.8	.4	.1	.0		1.4	.0	.0	.2	.1	.0	.0		.3	
8-9	.0	*	.3	.2	.0	.0		.5	.0	*	*	.2	.0	.0		.2	
10-11	.0	.0	.1	.1	.0	.0		.1	.0	.0	.0	.1	.0	.0		.1	
12	.0	.0	.1	.1	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.1	.0		.1	
17-19	.0	.0	.1	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	4.5	5.6	1.5	.2	.0		12.1	.1	1.5	1.5	.4	.1	.0		3.6	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	3.4	.2	.0	.0	.0	7.9	
1-2	1.9	18.5	7.2	.0	.0	.0	27.5	
3-4	.2	9.1	14.8	2.1	.0	.0	26.2	
5-6	.0	1.8	11.3	3.8	.2	.0	17.2	
7	.0	.2	5.4	4.0	.2	.0	9.9	
8-9	.0	.1	1.6	3.4	.2	.0	5.3	
10-11	.0	*	.4	2.3	.2	.0	3.0	
12	.0	.0	.2	.6	.1	*	1.1	
13-16	.0	*	.1	.8	.3	.0	1.3	
17-19	.0	.0	.1	.2	.1	.0	.4	
20-22	.0	.0	.0	.0	*	*	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	33.2	41.4	17.3	1.6	.1	100.0	2027

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<5	.5	3.6	5.3	4.9	3.7	2.5	1.0	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	607	5
6-7	.0	.3	3.3	5.7	6.9	4.8	3.5	1.3	1.8	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	771	8
8-9	.0	.2	1.2	3.8	4.1	3.8	4.4	1.5	2.0	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	596	9
10-11	.0	*	.6	1.1	1.9	1.8	1.6	1.1	1.5	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	280	9
12-13	.0	.0	.6	.3	.6	.8	1.0	.3	.7	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	123	9
>13	.0	.0	.0	.4	.2	.3	.3	*	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	48	11
INDET	1.4	.4	1.2	1.9	1.8	1.6	.9	.3	.4	.2	.0	.0	*	.0	.0	.0	.0	.0	.0	279	6
TOTAL	51	121	331	491	520	420	343	134	192	58	28	10	5	0	0	0	0	0	0	2704	7
PCT	1.9	4.5	12.2	18.2	19.2	15.5	12.7	5.0	7.1	2.1	1.0	.4	.2	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1878-1976
(OVER-ALL) 1856-1976AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	3.1	1.7	2.8	.0	.0	.0	.0	7.6	3.8	2.8	10.2	.0	1.7	.0	75.0
NE	3.3	1.3	1.3	.0	.0	.0	.0	5.0	.0	1.7	7.0	.0	.7	.0	85.7
E	2.7	.6	1.9	.0	.0	.0	.0	4.7	.9	2.0	2.6	.6	3.0	.5	86.0
SE	.8	.8	.7	.0	.0	.0	.0	2.2	.7	.8	1.5	.2	2.4	.1	92.0
S	.8	.8	.6	.0	.0	.0	.0	2.2	2.8	.8	2.4	.2	.8	.0	91.1
SW	3.3	2.9	1.6	.0	.0	.0	.0	7.3	4.3	.2	1.4	.4	.4	.1	85.8
W	2.4	2.9	1.8	.0	.0	.0	.0	7.1	6.3	1.0	2.2	.4	1.8	.3	80.9
NW	2.7	3.8	2.4	.0	.0	.0	.0	8.9	2.8	2.3	6.4	.3	1.2	.0	78.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.9	.9	.0	.0	.0	.0	2.7	.0	4.2	12.2	.6	3.9	.0	76.4
TOT PCT	1.9	1.7	1.4	.0	.0	.0	.0	4.8	2.5	1.4	3.7	.3	1.8	.1	85.4
TOT OBS:	3908														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00603	2.3	1.9	1.1	.0	.0	.0	.0	5.3	1.5	3.1	3.8	.1	.9	.1	85.2
06609	2.8	1.7	1.5	.0	.0	.0	.0	5.8	3.7	.9	4.5	.5	1.4	.0	83.2
12615	1.3	1.7	1.2	.0	.0	.0	.0	4.1	3.0	.1	4.4	.3	3.3	.3	84.5
18621	1.8	1.2	1.4	.0	.0	.0	.0	4.2	1.6	2.1	4.5	.2	1.7	.1	86.1
TOT PCT	2.0	1.6	1.3	.0	.0	.0	.0	4.9	2.5	1.5	4.3	.3	1.9	.1	84.7
TOT OBS:	4137														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	1.9	1.2	.5	.1	*		4.2	12.2		3.3	3.4	4.7	6.3	5.6	4.4	2.8	3.9
NE	.4	1.9	1.1	.4	*	*		3.8	11.2		3.0	4.4	5.1	4.6	3.9	3.2	3.3	1.0
E	.5	4.3	5.3	2.0	.3	.1		12.5	14.6		12.2	15.0	13.4	13.8	12.1	10.3	11.3	21.4
SE	.9	6.3	7.7	3.8	.7	*		19.4	15.2		20.6	18.2	19.7	16.0	17.7	20.1	21.3	22.1
S	1.0	6.2	5.4	2.3	.3	*		15.2	13.2		17.1	12.6	15.3	16.7	13.7	14.9	16.8	16.6
SW	1.2	5.1	4.6	1.5	.4	*		12.9	12.9		13.2	11.9	11.7	14.0	13.0	13.5	14.0	6.8
W	.9	5.4	5.5	2.5	.7	.2		15.2	15.0		13.6	13.0	14.0	13.3	17.3	17.8	15.0	14.6
NW	.9	4.2	3.5	1.4	.5	.1		10.6	13.9		8.9	11.6	9.4	14.4	12.0	12.5	9.5	11.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2							.0	.0		8.2	10.0	6.8	.8	4.7	3.4	6.0	2.6
TOT OBS	1066	3029	2950	1238	257	42	8582	6.2	13.1		1471	913	1465	130	2192	805	1529	77
TOT PCT	12.4	35.3	34.4	14.4	3.0	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.4	1.7	.8	.2	.1			4.2	12.2		3.3	4.8	5.3	2.9
NE	1.2	1.7	.7	.1	*			3.8	11.2		3.6	5.0	3.7	3.1
E	2.1	5.7	3.4	1.0	.1			12.5	14.6		13.3	13.4	11.6	11.8
SE	3.5	7.7	6.2	1.8	.2			19.4	15.2		19.6	19.4	18.3	21.3
S	3.5	7.2	3.6	.8	.1			15.2	13.2		15.4	15.5	14.0	16.8
SW	3.3	5.9	2.8	.8	.1			12.9	12.9		12.7	11.9	13.1	13.6
W	3.4	6.1	3.7	1.6	.3			15.2	15.0		13.3	13.9	17.5	13.0
NW	2.9	4.2	2.3	1.0	.2			10.6	13.9		9.9	9.8	12.2	9.6
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	6.2							6.2	.0		8.9	6.3	4.3	5.8
TOT OBS	2364	3457	2026	632	103	8582		13.1			2384	1595	2997	1606
TOT PCT	27.5	40.3	23.6	7.4	1.2			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1878-1976
(OVER-ALL) 1856-1976

APRIL

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	8.9	5.8	34.9	32.3	15.2	2.5	.4	12.7	100.0	2384	
0600Z	6.3	5.0	33.9	38.4	13.1	2.6	.2	13.0	100.0	1595	
1200Z	4.3	6.3	36.2	33.6	14.9	3.8	.8	13.7	100.0	2997	
1800Z	5.8	7.1	35.5	35.0	13.7	2.7	.2	12.8	100.0	1606	
TOT	535	531	3029	2950	1238	257	.42	13.1		8582	
PCT	6.2	6.2	35.3	34.4	14.4	3.0	.5		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	.7	.4	.9	1.4		5.6
NE	1.3	.5	.8	1.4		3.5
E	6.5	1.9	2.9	1.6		3.1
SE	11.9	3.0	4.5	1.6		2.7
S	8.0	3.6	5.7	2.3		3.7
SW	3.6	2.6	5.0	2.2		4.5
W	3.9	2.8	6.2	2.6		4.7
NW	1.9	1.3	2.9	1.2		4.6
VAR	.0	.0	.0	.0		.0
CALM	2.0	.5	.7	.6		3.3
TOT OBS	1013	424	753	354	2544	3.8
TOT PCT	39.8	16.7	29.6	13.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION												
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8	TOTAL	
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS	
.3	.0	.1	.5	.4	.3	.1	*	.1	.1	1.7		
*	.0	.1	.2	.4	.1	.1	.1	.0	*	2.0		
.2	.1	.2	.5	.9	.6	.3	*	.2	.1	9.8		
.2	*	*	1.5	1.0	.2	.2	.1	.1	16.9			
.1	*	*	.9	2.5	1.2	.6	.1	.1	10.4			
.1	.0	.2	1.0	2.0	1.4	.4	.2	*	8.0			
*	.0	.5	1.6	2.6	1.5	.5	.1	.1	8.5			
.1	.0	.1	.5	1.1	.7	.2	*	*	4.5			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
.3	.0	.0	.1	.3	.2	.0	*	.0	2.8			
33	3	32	154	298	178	62	24	15	13	1732		
1.3	.1	1.3	6.1	11.7	7.0	2.4	.9	.6	.5	68.1	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 1/10	> 0
> 6500	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
> 5000	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1
> 3500	3.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
> 2000	9.5	11.4	11.5	11.5	11.5	11.5	11.5	11.5
> 1000	18.4	22.5	23.0	23.1	23.1	23.2	23.2	23.2
> 600	22.0	28.0	28.9	29.1	29.1	29.2	29.2	29.2
> 300	22.4	28.9	30.1	30.3	30.3	30.5	30.5	30.5
> 150	22.4	28.9	30.2	30.4	30.4	30.6	30.7	30.7
> 0	22.5	29.2	30.7	31.0	31.2	31.5	31.9	32.0
TOTAL	591	766	805	815	819	828	839	841

TOTAL NUMBER OF OBS: 2626

PCT FREQ NH < 5/8: 68.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
	21.9	16.2	12.2	9.5	7.3	6.9	6.9	7.1	10.8	1.2	2793

PERIOD: (PRIMARY) 1878-1976
(OVER-ALL) 1856-1976

APRIL

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.1	.1	*	.1	.1	.2	.0	.5	1.4	
	TOT %	.2	.1	.1	.1	.1	.1	.1	.2	.0	.5	1.4	
1/2<1	PCP	.0	.0	*	*	.0	.0	.0	*	.0	.1	.1	
	NO PCP	.1	*	.0	*	*	*	.1	.2	.0	.5	.9	
	TOT %	.1	*	*	*	*	*	.1	.2	.0	.5	1.0	
1<2	PCP	.1	.0	*	*	*	.0	*	*	.0	.0	.3	
	NO PCP	.1	*	.1	.1	.0	*	.1	.2	.0	.4	1.0	
	TOT %	.1	*	.1	.1	*	*	.1	.2	.0	.4	1.3	
2<5	PCP	*	*	.2	*	*	.1	.2	.1	.0	.0	.7	
	NO PCP	.1	.0	.1	.2	.2	.1	.2	.3	.0	.1	1.2	
	TOT %	.1	*	.2	.2	.2	.2	.3	.4	.0	.1	1.9	
5<10	PCP	.2	.1	.2	.3	.2	.4	.6	.6	.0	.2	2.6	
	NO PCP	1.2	.9	2.1	5.4	3.1	1.4	3.0	3.3	.0	4.2	24.6	
	TOT %	1.4	.9	2.2	5.6	3.3	1.9	3.6	3.9	.0	4.4	27.2	
10+	PCP	.0	.1	.1	.1	.1	.3	.3	.1	.0	.0	1.0	
	NO PCP	1.8	1.8	8.1	15.0	13.2	9.1	10.0	4.6	.0	2.6	66.2	
	TOT %	1.8	1.9	8.2	15.0	13.2	9.5	10.2	4.7	.0	2.6	67.2	
TOT OBS		3.7	2.9	11.0	21.2	16.9	11.7	14.5	9.7	.0	8.6	100.0	3903
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	*	*	*	*	.1	*	.0	.5	.7	
	4-10	.1	.1	.1	.1	*	.0	.1	.1	.0	.5	.5	
	11-21	.1	*	*	*	*	.0	.0	.1	.0	.2	.2	
	22+	*	.0	.0	*	*	.0	.0	.0	.0	.1	.1	
	TOT %	.2	.1	.1	.1	.1	.0	.1	.2	.0	.5	1.5	
1/2<1	0-3	.0	.0	.0	*	*	*	*	*	.0	.4	.6	
	4-10	.1	*	*	*	*	*	.1	.0	.0	.3	.3	
	11-21	.0	.0	*	*	.0	.0	.0	*	.0	*	*	
	22+	*	*	.0	*	.0	.0	.0	.0	.0	*	*	
	TOT %	.1	*	*	*	.1	*	*	.2	.0	.4	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	*	*	*	.1	.1	*	.1	.0	.4	.4	
	11-21	.1	*	.1	.1	.1	.0	.1	.1	.0	.4	.4	
	22+	.0	.0	*	*	*	*	.1	.1	.0	.2	.2	
	TOT %	.1	*	.1	.1	.1	.1	.2	.2	.0	.4	1.4	
2<5	0-3	*	.0	.0	.0	*	*	.1	*	.0	.1	.3	
	4-10	.1	*	.1	.1	.1	.1	.1	.1	.0	.7	.7	
	11-21	.1	.0	.1	.1	.1	.1	.1	.1	.0	.7	.7	
	22+	*	.0	.1	.1	*	.1	.2	.2	.0	.7	.7	
	TOT %	.2	*	.3	.3	.2	.3	.5	.4	.0	.1	2.3	
5<10	0-3	.1	.1	.1	.3	.2	.2	.3	.7	.0	3.7	5.6	
	4-10	.5	.4	.7	2.2	1.4	.6	1.0	1.5	.0	8.3	8.3	
	11-21	.5	.3	.9	1.6	.9	.6	1.2	.8	.0	6.7	6.7	
	22+	.2	.1	.5	1.0	.5	.3	.8	.5	.0	4.0	4.0	
	TOT %	1.2	.8	2.2	5.0	2.9	1.7	3.3	3.6	.0	3.7	24.6	
10+	0-3	.2	.1	.4	.6	.8	.7	.5	.1	.0	3.3	6.7	
	4-10	1.2	1.0	2.5	4.5	5.4	4.0	3.8	2.5	.0	24.8	24.8	
	11-21	.5	.5	4.0	6.0	5.2	4.1	4.5	2.1	.0	26.9	26.9	
	22+	.2	.2	1.4	3.6	1.9	1.0	1.9	.5	.0	10.8	10.8	
	TOT %	2.1	1.8	8.2	14.7	13.3	9.7	10.7	5.3	.0	3.3	69.2	
TOT OBS		3.8	2.9	11.0	20.3	16.7	11.9	14.9	10.0	.0	8.5	100.0	4747
TOT PCT													

APRIL

PERIOD: (PRIMARY) 1878-1976
(OVER-ALL) 1856-1976AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.6	.0	.9	6.0	10.9	6.8	1.7	.9	.0	.3	29.8	70.2	634
06009	1.1	.3	2.4	7.2	13.2	9.4	3.0	.9	.1	.8	38.4	61.6	755
12015	.9	.1	.9	6.4	11.7	5.2	2.4	.9	1.1	.7	30.5	69.5	745
18021	1.9	.0	.7	3.6	8.9	5.8	2.0	.7	.5	.3	24.4	75.6	587
TOT	36	3	35	161	308	187	64	74	16	15	849	1872	2721
PCT	1.3	.1	1.3	5.9	11.3	6.9	2.4	.9	.0	.6	31.2	68.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	1.1	1.4	1.4	26.0	68.8	1356
06009	2.0	1.5	1.7	2.8	22.3	69.7	1183
12015	1.4	1.2	1.7	2.8	28.2	64.7	1387
18021	2.2	.8	1.1	2.3	23.4	70.2	1060
TOT	84	59	75	115	1255	3398	4986
PCT	1.7	1.2	1.5	2.3	25.2	68.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.6	2.8	9.5	21.6	69.0	612
06009	1.1	3.8	12.7	27.7	59.6	733
12015	1.1	2.8	10.6	21.6	67.7	716
18021	1.9	2.8	8.0	18.1	74.0	565
TOT	37	81	272	592	1762	2626
PCT	1.4	3.1	10.4	22.5	67.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	*	.0	.0	.0	.0	1	*
80/84	.0	.1	.1	*	.0	.0	.0	.0	6	.2
75/79	.0	*	.1	.1	.1	.1	.0	.0	16	.5
70/74	.0	*	.2	.3	.8	1.0	.8	.8	129	3.9
65/69	.0	.0	.2	1.4	4.5	9.0	11.2	7.0	1094	32.2
60/64	.0	.0	.3	2.4	8.7	11.7	15.4	10.2	1608	48.7
55/59	.0	.0	*	.4	1.0	2.1	3.8	5.5	421	12.8
50/54	.0	.0	.0	.0	.0	.1	.3	.3	24	.7
45/49	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	5	27	153	496	794	1040	785	3300	100.0
PCT	.0	.2	.8	4.6	15.0	24.1	31.5	23.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	*	.0	.0
.0	.0	.0	.0	.0	*	*	*	.0	.1
.0	.0	.1	.1	*	.0	.1	*	.0	.2
.1	.2	.6	.8	.5	.5	.5	.3	.0	.5
.7	1.2	5.1	7.5	4.7	3.4	5.4	2.8	.0	2.3
1.9	1.1	4.3	10.6	9.6	6.6	6.7	4.2	.0	3.7
.8	.4	.6	2.3	2.2	1.0	1.2	1.8	.0	2.4
*	*	.0	.1	.0	*	.1	.2	.0	.3
.0	.0	.0	.0	.0	.0	.0	.0	.0	*
3.5	2.8	10.8	21.4	17.0	11.6	13.9	9.4	.0	9.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	71	68	63	57	54	49	63.1	2405
06009	79	72	69	64	57	54	50	63.3	1619
12015	86	76	72	68	59	57	54	65.8	3005
18021	78	72	69	64	58	55	50	63.9	1624
TOT	86	74	70	64	58	55	49	64.2	8653

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00003	.0	3.9	11.6	21.2	33.7	29.7	82	917
06009	.0	3.9	11.7	23.5	30.3	30.6	82	839
12015	.1	10.0	19.3	26.7	27.8	16.1	76	960
18021	.0	4.7	15.5	23.0	35.0	21.8	80	774
TOT	1	201	509	825	1101	853	80	3490

APRIL

PERIOD: (PRIMARY) 1878-1976
(OVER-ALL) 1856-1976

TABLE 17

AREA 0019 CAPE TOWN
34.35 18.5EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	58 64	59 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	3	.0	.1
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	6	.0	.2
14/16	.0	.0	.0	.1	.1	.3	.1	.0	.0	.0	21	.0	.6
11/13	.0	.0	.0	.1	.5	.4	.0	.1	.0	.0	40	.1	1.0
9/10	.0	.0	.1	.4	.7	.1	.1	.0	.0	.0	49	.0	1.4
7/8	.0	.0	.1	1.2	.8	.3	.1	.0	.0	.0	92	.1	2.5
6	.0	.1	.4	1.1	.6	.1	.1	.0	.0	.0	84	.1	2.3
5	.0	.1	.6	1.6	1.1	.5	.1	.0	.0	.0	140	.3	3.7
4	.0	.0	.8	1.9	1.1	.7	.1	.0	.0	.0	163	.1	4.5
3	.0	.1	1.5	1.8	1.2	.8	.0	.0	.0	.0	190	.1	5.2
2	.0	.2	1.9	2.7	2.6	.7	.0	.0	.0	.0	285	.5	7.6
1	.0	.3	1.3	2.7	4.3	1.1	.0	.0	.0	.0	346	.5	9.3
0	.0	.5	1.2	4.8	6.3	.7	.0	.0	.0	.0	482	.7	13.0
-1	.0	.3	1.0	5.4	5.4	.2	.0	.0	.0	.0	434	.5	11.8
-2	.0	.1	1.0	6.2	3.1	1.0	.0	.0	.0	.0	373	.4	10.1
-3	.0	.1	.8	4.6	1.6	.1	.0	.0	.0	.0	252	.3	6.9
-4	.0	.1	1.0	4.2	.8	.1	.0	.0	.0	.0	215	.1	6.0
-5	.0	.1	1.0	2.6	.7	.0	.0	.0	.0	.0	155	.0	4.4
-6	.0	.0	.7	1.0	.2	.0	.0	.0	.0	.0	68	.0	1.9
-7/-8	.0	.1	.8	.8	.2	.0	.0	.0	.0	.0	66	.0	1.9
-9/-10	.0	.1	.3	.3	.1	.0	.0	.0	.0	.0	30	.0	.8
-11/-13	.0	.1	.1	.3	.1	.0	.0	.0	.0	.0	20	.0	.5
-14/-16	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	11	.0	.3
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	7		519		1119		29		6		3535	135	3400
PCT	.2	2.3	14.7	43.7	31.7	6.2	.8	.2	.2	.1	100.0	3.8	96.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.0	.1	.0	.0	.0	1.0	.2	1.0	.1	.0	.0	.0	1.3
3-4	.0	.5	.4	.1	.0	.0	1.0	.0	.6	.3	.2	.0	.0	1.1
5-6	.0	.0	.2	.2	.0	.0	.5	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.1	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	.9	.5	.0	.0	3.3	.3	1.7	.8	.3	.0	.1	3.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.1	.0	.0	.0	.7	.2	.6	.0	.0	.0	.0	.8
1-2	.1	2.6	.8	.0	.0	.0	3.5	.2	3.5	1.3	.0	.0	.0	5.1
3-4	.1	.7	1.9	.3	.0	.0	3.1	.0	1.8	3.0	.8	.0	.0	5.5
5-6	.1	.6	1.7	.5	.0	.0	2.9	.0	.3	2.7	.9	.2	.0	4.0
7	.0	.1	.7	.9	.1	.0	1.8	.0	.0	2.2	1.4	.0	.0	3.7
8-9	.0	.0	.3	.3	.3	.0	.9	.0	.0	.7	.4	.1	.0	1.2
10-11	.0	.0	.2	.1	.0	.0	.4	.0	.0	.3	.5	.3	.1	1.1
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.3	.1	.0	.4
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.2	.0	.4
17-19	.0	.0	.1	.0	.3	.0	.4	.0	.0	.0	.1	.1	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.3	6.0	2.4	.7	.0	13.9	.4	6.3	10.1	4.7	1.1	.1	22.6

PERIOD: (OVER-ALL) 1963-1976

APRIL

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.1	.6	.3	.0	.0	.0	.0	.9
1-2	.5	4.0	1.4	.0	.0	.0	5.8	.2	2.5	.5	.0	.0	.0	3.3
3-4	.1	2.0	2.3	.1	.0	.0	4.5	.1	1.3	1.6	.2	.0	.0	3.2
5-6	.0	.6	1.4	.9	.0	.0	2.8	.0	.3	1.7	.4	.0	.0	2.3
7	.0	.2	1.4	.8	.1	.0	2.6	.0	.2	1.1	.3	.0	.0	1.5
8-9	.0	.0	.3	.5	.0	.0	.9	.0	.2	.2	.4	.0	.0	.9
10-11	.0	.1	.1	.1	.1	.0	.4	.0	.0	.1	.2	.1	.0	.4
12	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.1	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.6	7.0	2.8	.3	.0	18.7	.8	4.8	5.4	1.6	.1	.0	12.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.1	.0	.0	.0	.5	.0	.6	.1	.0	.0	.0	.7	
1-2	.1	1.6	.9	.0	.0	.0	2.6	.1	1.0	.5	.0	.0	.0	1.6	
3-4	.0	1.6	2.2	.2	.0	.0	3.9	.0	.6	1.3	.1	.0	.0	2.0	
5-6	.0	.4	2.0	.8	.1	.0	3.2	.0	.2	.6	.1	.0	.0	1.0	
7	.0	.0	.6	.7	.1	.0	1.4	.0	.0	.2	.3	.0	.0	.5	
8-9	.1	.0	.2	.6	.0	.0	.9	.0	.0	.1	.2	.0	.0	.3	
10-11	.0	.0	.2	.6	.2	.0	1.0	.0	.0	.0	.1	.1	.0	.2	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.1	.0	.2	
13-16	.0	.0	.0	.3	.1	.0	.3	.0	.0	.0	.0	.1	.1	.1	
17-19	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.1	.1	.0	.1	
20-22	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.9	6.1	3.5	.5	.0	14.3	.1	2.5	2.8	1.0	.2	.1	6.8	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.5	3.1	.2	.0	.0	.0	10.8	
1-2	2.4	17.0	5.6	.0	.0	.0	24.9	
3-4	.2	9.0	12.6	1.9	.0	.0	23.7	
5-6	.1	2.3	10.3	3.7	.3	.0	16.6	
7	.0	.4	6.1	4.5	.3	.1	11.5	
8-9	.1	.2	1.9	2.5	.4	.0	5.1	
10-11	.0	.1	.9	1.6	.8	.1	3.4	
12	.0	.0	.2	1.1	.2	.0	1.5	
13-16	.0	.0	.1	.7	.3	.1	1.1	
17-19	.0	.1	.2	.3	.5	.0	1.0	
20-22	.0	.0	.1	.2	.1	.1	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.2	32.2	38.1	16.5	2.8	.2	100.0	1834

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	4.0	6.0	4.1	3.8	1.8	1.2	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	525	5
6-7	.0	.6	3.1	6.0	6.0	4.7	3.4	1.7	2.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	660	7
8-9	.0	.1	.9	3.0	4.8	3.1	3.2	2.4	2.5	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	498	9
10-11	.0	.3	.6	.8	1.5	1.8	1.4	1.1	2.0	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	241	10
12-13	.0	.0	1.0	.3	.9	.5	.6	.7	.7	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	118	9
>13	.0	.0	.0	.5	.3	.6	.4	.3	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	67	11
INDET	1.9	.4	1.0	1.9	1.3	1.5	.7	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	226	6
TOTAL	58	124	296	386	434	327	255	167	186	52	40	5	5	0	0	0	0	0	0	2335	8
PCT	2.5	5.3	12.7	16.5	18.6	14.0	10.9	7.2	8.0	2.2	1.7	.2	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1872-1976
(OVER-ALL) 1855-1976

MAY

AREA 0019 CAPE TOWN
34.35 18.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE											OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.0	3.7	3.5	.0	.0	.0	.0	9.2	3.7	.7	5.0	.4	2.0	.0	78.9	
NE	.3	.0	.7	.0	.0	.0	.0	1.0	1.7	1.3	4.2	1.2	2.5	.0	88.1	
E	.5	.7	.3	.0	.0	.0	.0	1.5	.6	1.0	5.7	1.1	3.0	.0	87.2	
SE	.7	.6	.5	.0	.0	.0	.0	1.8	1.0	.4	1.2	*	.7	.0	94.8	
S	2.0	1.8	1.1	.0	.0	.0	.0	4.8	3.7	1.2	.9	.2	1.0	.0	88.3	
SW	2.3	2.8	.9	.0	.0	.0	.0	6.0	2.3	.8	1.8	.3	.9	.0	88.1	
W	3.0	3.0	1.3	.0	.0	.0	.0	7.1	4.1	1.4	1.9	.2	.9	.0	86.4	
NW	4.2	2.9	2.1	.0	.0	.0	.0	9.3	3.5	.6	4.0	.4	1.5	.0	80.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.0	.0	.0	.0	.0	.9	.9	6.1	7.9	.0	3.5	.0	80.8	
TOT PCT	2.1	2.0	1.2	.0	.0	.0	.0	5.1	2.6	1.3	3.1	.4	1.5	.0	86.1	
TOT OBS:	3564															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0000	2.4	2.2	1.5	.0	.0	.0	.0	6.0	2.8	3.7	3.2	.4	1.3	.0		82.7
0600	1.9	2.1	.7	.0	.0	.0	.0	4.6	2.8	.5	3.6	.4	1.6	.0		86.5
1200	1.8	1.7	1.1	.0	.0	.0	.0	4.5	2.4	.1	3.5	.4	1.8	.1		87.3
1800	2.4	1.4	1.3	.0	.0	.0	.0	5.1	2.4	1.5	3.1	.2	1.4	.0		86.2
TOT PCT TOT OBS:	2.1	1.9	1.2	.0	.0	.0	.0	5.0	2.6	1.4	3.4	.4	1.5	*		85.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.9	3.0	2.2	1.1	.5	.1		7.8	14.2	6.9	9.2	8.4	9.2	8.4	8.2	5.9	.7	
NE	.8	2.6	1.6	.3	*	*		5.4	10.0	4.6	6.1	6.8	3.2	5.4	4.8	4.5	7.5	
E	1.1	5.1	3.9	1.2	.3	*		11.6	12.1	11.6	13.2	13.0	8.0	10.5	11.5	11.7	7.9	
SE	1.0	5.1	5.2	1.7	.5	.0		13.5	13.2	15.3	13.2	12.1	11.2	12.1	14.4	15.5	12.1	
S	1.0	4.6	3.6	1.2	.1	*		10.5	11.8	12.3	10.8	10.0	12.0	9.1	10.7	11.3	12.5	
SW	.9	4.4	3.5	1.8	.6	.1		11.4	14.4	10.9	9.9	10.3	14.4	12.1	12.7	11.2	17.5	
W	1.3	5.9	6.4	3.8	1.4	.2		18.9	16.4	18.6	16.2	19.1	22.0	20.0	17.9	19.2	26.8	
NW	1.1	4.7	5.0	3.4	1.2	.4		15.8	17.3	14.2	15.3	16.0	15.2	18.4	15.3	13.6	10.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.1							5.1	.0	5.6	6.2	4.3	4.8	4.0	4.4	7.2	4.3	
TOT OBS	1279	3425	3029	1401	446	84	9664		13.5	1563	1089	1567	125	2670	905	1675	70	
TOT PCT	13.2	35.4	31.3	14.5	4.6	.9		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.4	2.8	1.6	.8	.3		7.8	14.2	7.8	8.5	8.4	5.7	
NE	2.0	2.4	.8	.1	*		5.4	10.0	5.2	6.6	5.3	4.7	
E	3.3	5.3	2.4	.6	*		11.6	12.1	12.3	12.6	10.7	11.5	
SE	3.6	5.5	3.5	1.0	.1		13.5	13.2	14.4	12.0	12.7	15.4	
S	3.2	4.6	2.3	.4	*		10.5	11.8	11.7	10.1	9.5	11.3	
SW	2.9	4.5	2.7	1.1	.3		11.4	14.4	10.5	10.6	12.3	11.5	
W	3.7	7.0	5.0	2.6	.6		18.9	16.4	17.6	19.3	19.5	19.5	
NW	3.1	5.3	4.4	2.1	.8		15.8	17.3	14.6	15.9	17.6	13.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.1						5.1	.0	5.8	4.3	4.1	7.0	
TOT OBS	2841	3602	2184	834	203	9664		13.5	2652	1692	3575	1745	
TOT PCT	29.4	37.3	22.6	8.6	2.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1872-1976
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.8	8.5	36.3	31.7	12.7	4.2	.7	13.0	100.0	2652
0600	4.3	8.0	37.7	32.3	13.7	4.0	.0	13.3	100.0	1692
1200	4.1	8.3	34.1	30.4	16.4	5.7	1.1	14.3	100.0	3575
1800	7.0	7.1	35.2	31.9	14.2	3.7	.9	13.2	100.0	1745
TOT	497	782	3425	3029	1401	446	.84	13.5		9664
PCT	5.1	8.1	35.4	31.3	14.5	4.6	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.3	1.2	2.0	1.4		4.9
NE	1.9	.6	1.0	.7		3.5
E	6.9	1.5	2.1	1.3		2.8
SE	8.2	2.5	2.2	1.4		2.7
S	4.4	2.5	3.6	1.0		3.4
SW	3.4	2.8	4.0	1.5		4.3
W	5.9	4.6	7.0	4.0		4.4
NW	3.4	2.8	4.9	3.1		4.8
VAR	.0	.0	.0	.0		.0
CALM	2.5	.3	1.0	.7		3.1
TOT OBS	972	486	717	388	2563	3.8
TOT PCT	37.9	19.0	28.0	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	*	.2	.8	.7	.3	.1	.0	.0	*	3.5	
NE	.1	.0	*	.2	.5	.3	*	.0	*	.1	2.9	
E	.2	*	.1	.5	.5	.5	.2	.0	*	.1	9.6	
SE	*	.0	.1	.7	1.1	.6	.2	.1	*	*	11.5	
S	*	.0	.2	.6	1.1	1.0	.2	*	*	*	8.2	
SW	.1	*	.2	.7	1.9	1.0	.2	.1	*	*	7.5	
W	.2	*	.2	1.6	3.7	1.7	.5	.2	.2	.1	13.2	
NW	.2	*	.4	1.5	2.0	1.3	.4	.1	.0	.1	8.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.2	.4	.2	.1	.0	.0	.0	.2	3.3	
TOT OBS	26	5	39	179	304	176	51	14	9	20	1740	2563
TOT PCT	1.0	.2	1.5	7.0	11.9	6.9	2.0	.5	.4	.8	67.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.3	1.6	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	3.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >2000	8.7	10.4	10.6	10.6	10.6	10.6	10.6	10.6
= OR >1000	17.1	21.5	22.1	22.2	22.2	22.2	22.2	22.2
= OR >600	20.8	27.6	28.8	28.9	28.9	29.0	29.0	29.0
= OR >300	21.3	28.9	30.2	30.4	30.4	30.4	30.4	30.4
= OR >150	21.4	29.1	30.4	30.6	30.6	30.7	30.7	30.7
= OR >0	21.5	29.4	31.0	31.2	31.3	31.4	31.7	31.7
TOTAL	579	789	832	839	841	845	852	853

TOTAL NUMBER OF OBS: 2487

PCT FREQ NH <5/8: 68.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	22.6	14.2	11.7	10.5	8.3	5.6	7.2	7.7	11.2	.8	2844

PERIOD: (PRIMARY) 1872-1976
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	NO PCP	.1	.1	.2	.1	.1	.1	.2	.2	.0	.1	1.2	
	TOT %	.1	.1	.2	.1	.1	.1	.2	.3	.0	.1	1.2	
1/2<1	PCP	*	*	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	*	*	.0	.1	.0	*	.1	.1	.0	.3	.6	
	TOT %	*	*	.0	.1	.0	*	.1	.2	.0	.3	.6	
1<2	PCP	.1	.0	.0	.0	.0	.0	.1	*	.0	.0	.2	
	NO PCP	*	.1	.1	.1	.1	*	*	*	.0	.1	.6	
	TOT %	.1	.1	.1	.1	.1	*	.1	.1	.0	.1	.7	
2<5	PCP	.1	.0	*	.1	.1	.2	.3	.3	.0	*	1.1	
	NO PCP	.2	*	.2	.1	*	*	.3	.3	.0	.1	1.3	
	TOT %	.3	*	.2	.1	.2	.2	.6	.6	.0	.1	2.4	
5<10	PCP	.2	*	.1	.1	.3	.3	.8	.8	.0	.0	2.6	
	NO PCP	1.3	.8	2.0	2.7	1.8	1.7	4.2	3.2	.0	2.7	20.3	
	TOT %	1.5	.9	2.0	2.8	2.1	2.0	4.9	4.0	.0	2.7	22.9	
10+	PCP	.1	.0	*	.1	.1	.2	.4	.3	.0	*	1.2	
	NO PCP	3.7	3.1	8.5	11.1	8.6	8.6	14.5	9.7	.0	3.1	70.9	
	TOT %	3.7	3.1	8.6	11.2	8.7	8.8	14.9	10.0	.0	3.1	72.1	
TOT OBS													
TOT PCT													
		5.9	4.2	11.1	14.3	11.1	11.2	20.8	15.0	.0	6.4	100.0	3562

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.1	*	*	*	.0	.1	.0	.2	.4	
	4-10	.1	*	.1	*	*	.1	.2	.2	.0		.7	
	11-21	*	*	.1	.0	.0	.0	*	*	.0		.1	
	22+	.0	*	.0	.0	.0	.0	.0	*	.0		.1	
	TOT %	.1	.1	.2	*	.1	.1	.2	.3	.0	.2	1.3	
1/2<1	0-3	*	*	.0	.0	*	*	.0	*	.0	.2	.3	
	4-10	*	*	.0	*	.0	*	.1	.1	.0		.2	
	11-21	.1	.0	.0	*	*	.0	.0	*	.0		.1	
	22+	*	.0	.0	.0	.0	.0	.0	.0	.0		*	
	TOT %	.1	*	.0	*	*	.1	.1	.2	.0	.2	.7	
1<2	0-3	.0	.0	*	*	*	.0	.0	.0	.0	.1	.2	
	4-10	*	*	.0	*	*	*	*	*	.0		.2	
	11-21	*	*	*	*	*	.0	.1	*	.0		.2	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		.1	
	TOT %	.1	*	.1	.1	.1	*	.1	.1	.0	.1	.7	
2<5	0-3	.0	*	*	.0	*	*	.1	*	.0	.1	.3	
	4-10	.1	*	.1	.1	.1	.1	.1	.1	.0		.6	
	11-21	.2	*	.1	*	.1	.1	.3	.2	.0		1.0	
	22+	.1	.0	*	*	.1	.1	.3	.3	.0		.9	
	TOT %	.3	.1	.3	.1	.2	.3	.7	.7	.0	.1	2.8	
5<10	0-3	.2	.2	.1	.2	.3	.1	.1	.6	.0	2.3	4.1	
	4-10	.4	.3	.8	.8	.9	.8	1.4	.9	.0		6.4	
	11-21	.6	.2	.7	1.0	.6	.5	1.4	1.1	.0		6.1	
	22+	.4	.1	.2	.3	.1	.6	1.7	1.1	.0		4.5	
	TOT %	1.5	.8	1.8	2.4	1.9	2.0	4.6	3.7	.0	2.3	21.1	
10+	0-3	.6	.5	.5	.5	.9	.6	.9	.4	.0	3.2	8.2	
	4-10	1.9	1.9	4.0	4.3	4.1	3.8	4.9	3.4	.0		28.2	
	11-21	1.4	1.0	3.1	5.0	3.1	3.0	6.2	4.4	.0		27.2	
	22+	.3	.1	1.1	1.2	.7	1.4	2.9	2.1	.0		9.9	
	TOT %	4.3	3.5	8.6	11.0	8.8	8.9	14.9	10.2	.0	3.2	73.4	
TOT OBS													
TOT PCT													
		6.5	4.5	10.9	13.7	11.1	11.4	20.6	15.1	.0	6.2	100.0	4368

PERIOD: (PRIMARY) 1872-1976
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	1.6	.2	1.4	6.8	11.0	6.5	1.9	.3	.3	.8	30.9	69.1	628
06609	1.2	.4	2.1	9.5	14.0	8.1	2.1	.9	.3	.4	39.0	61.0	756
12615	.4	.1	.8	5.1	10.4	5.4	1.8	.5	.4	.9	26.0	74.0	758
18621	1.1	.2	1.4	4.5	9.4	6.8	1.7	.3	.3	1.0	26.7	73.3	629
TOT	29	6	40	182	313	186	53	15	9	21	854	1917	2771
PCT	1.0	.2	1.4	6.6	11.3	6.7	1.9	.5	.3	.8	30.8	69.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	1.4	.8	.9	2.1	24.4	70.4	1234
06609	1.7	.8	.9	3.0	21.0	72.5	1093
12615	1.7	.9	.5	2.8	21.7	72.4	1302
18621	1.3	.7	.8	2.9	19.4	74.9	991
TOT	71	38	36	124	1005	3346	4620
PCT	1.5	.8	.8	2.7	21.8	72.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	2.0	3.8	11.5	21.0	67.5	610
06609	1.5	4.4	16.4	25.4	58.2	732
12615	.4	1.6	8.1	19.2	72.7	741
18621	1.5	3.1	8.3	20.2	71.5	604
TOT	35	86	300	576	1809	2687
PCT	1.3	3.2	11.2	21.5	67.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.0	.0	.0	.0	.0	.0	1	*
75/79	.0	.0	.1	.1	.0	.0	.0	.0	5	.2
70/74	.0	.1	.1	.3	.3	.4	.3	.1	46	1.5
65/69	.0	.0	.1	.9	2.0	5.4	5.3	2.3	481	16.1
60/64	.0	.0	.2	1.8	6.3	15.3	21.6	13.9	1767	59.1
55/59	.0	.0	.1	1.2	2.7	5.2	6.4	6.1	651	21.8
50/54	.0	.0	.0	.0	.1	.2	.4	.6	40	1.3
45/49	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	1	3	19	127	345	791	1018	688	2992	100.0
PCT	*	.1	.6	4.2	11.5	26.4	34.0	23.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	*	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	*	.0	.0	.0	*	.0	.1
70/74	.0	.2	.2	.3	*	*	.3	.3	.0	.1
65/69	.9	1.1	2.6	2.2	1.0	1.3	3.7	2.5	.0	.8
60/64	2.5	2.3	6.4	9.5	6.9	6.4	13.1	8.5	.0	3.3
55/59	2.1	.6	1.5	3.0	3.4	2.8	2.8	3.2	.0	2.3
50/54	.1	*	*	.0	.1	.4	.3	.2	.0	.3
45/49	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
TOTAL	5.6	4.2	10.7	15.1	11.4	10.9	20.3	14.7	.0	7.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	78	69	67	62	56	54	49	61.4	2607
06609	75	69	67	62	56	53	50	61.6	1688
12615	81	73	70	64	58	55	51	63.6	3492
18621	83	70	67	62	57	55	52	62.2	1733
TOT	83	72	68	62	56	54	49	62.4	9520

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	4.0	9.7	25.0	33.6	27.7	82	833
06609	.0	3.4	8.5	26.5	36.0	25.6	82	786
12615	.3	8.5	16.5	27.8	31.6	15.2	77	869
18621	.0	4.6	11.4	24.1	34.9	25.0	81	719
TOT	3	167	373	831	1089	744	80	3207

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FUG	WD FUG
20/22	.0	.0	.0	.0	.0	.1	*	*	*	4	.0	.1
17/19	.0	.0	.0	.0	.0	.1	*	*	*	5	.0	.1
14/16	.0	.0	.0	.1	*	.3	*	*	*	15	.0	.4
11/13	.0	.0	*	.2	.1	.1	.1	.0	.0	14	.0	.4
9/10	.0	.0	.1	.6	.4	.2	.1	*	.0	51	*	1.5
7/8	.0	.0	.2	1.0	.5	.4	.1	.0	.0	72	.1	2.1
6	.0	.0	.2	.4	.4	.1	.0	.0	.0	36	*	1.0
5	.0	.0	.5	.7	.8	.3	*	.0	.0	78	.1	2.2
4	.0	.1	.7	1.3	1.1	.3	.0	.0	.0	110	.1	3.4
3	*	.1	1.4	1.8	1.4	.1	*	.0	.0	167	.3	4.7
2	.0	.3	1.6	3.2	2.4	.1	.0	.0	.0	257	.2	7.4
1	.0	.3	1.8	5.5	2.4	.1	.0	.0	.0	343	.4	9.7
0	.0	.7	2.4	10.0	2.0	.1	.0	.0	.0	515	.5	14.8
-1	.0	.2	2.5	9.8	1.7	*	.0	.0	.0	449	.5	12.7
-2	.0	.4	3.8	6.7	.8	*	.0	.0	.0	396	.4	11.4
-3	.0	.2	3.0	3.8	.7	*	.0	.0	.0	262	.2	7.5
-4	.1	.4	3.0	2.6	.3	.0	.0	.0	.0	216	.2	6.2
-5	.0	.5	2.6	1.7	.2	*	.0	.0	.0	170	.1	4.9
-6	.0	.4	1.1	.7	.1	*	.0	.0	.0	78	.1	2.2
-7/-8	.0	1.0	1.0	.6	.1	.0	.0	.0	.0	91	*	2.7
-9/-10	.0	.4	.2	.3	.0	.0	.0	.0	.0	31	*	.9
-11/-13	.0	.2	.1	.1	*	.0	.0	.0	.0	14	*	.4
-14/-16	*	*	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-20/-22	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	4		892		524		18		1	3383	115	3268
PCT	.1	5.4	26.4	49.9	15.5	2.1	.5	.1	*	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	*	.0	.0	.0	.8	.2	.2	.0	.0	.0	.0	.4
1-2	.3	1.2	.2	.0	.0	.0	1.7	.4	1.3	.4	.0	.0	.0	2.1
3-4	.0	.7	.9	.1	.0	.0	1.8	.0	.5	.7	.0	.0	.0	1.3
5-6	.0	.1	1.2	.2	.0	.0	1.4	.0	.1	.4	.1	.0	.0	.5
7	.0	.0	.2	.1	.1	.0	.4	.0	.0	.2	.1	.0	.0	.2
8-9	.0	.0	.0	.2	.1	.0	.2	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.5	2.6	.7	.3	.0	6.8	.6	2.1	1.7	.3	.0	.0	4.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	*	.0	.0	.0	1.0	.2	.5	.1	.0	.0	.0	.7
1-2	.3	2.8	.9	.0	.0	.0	4.0	.3	3.2	.8	.0	.0	.0	4.3
3-4	.0	1.7	1.8	.1	.0	.0	3.6	.0	1.4	2.5	.1	.0	.0	4.1
5-6	.0	.2	.7	.3	.0	.0	1.2	*	.4	1.9	.4	.0	.0	2.8
7	.0	.1	.7	.2	.0	.0	.9	.0	.1	1.4	.4	.0	.0	1.9
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.0	*	.3	.1	.0	.4
10-11	.0	.0	.0	.2	.1	.0	.3	.0	.0	.1	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.5	4.5	1.1	.1	.0	11.7	.5	5.6	6.9	1.4	.2	.0	14.6

PERIOD: (OVER-ALL) 1963-1976

MAY

AREA 0019 CAPE TOWN
34.35 18.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.8	.0	.0	.0	.0		1.0	.7	.7	.1	.0	.0	.0		1.4
1-2	.4	3.1	.7	.0	.0	.0		4.3	.1	2.5	.4	.0	.0	.0		3.1
3-4	.0	1.2	1.5	.1	.0	.0		2.9	.0	1.3	1.3	.1	.0	.0		2.8
5-6	.0	.2	1.2	.2	.0	.0		1.6	.0	.2	.9	.2	.1	.0		1.4
7	.0	.0	.7	.0	.0	.0		.7	.0	.0	.3	.2	.1	.1		.7
8-9	.0	.1	.1	.1	.0	.0		.3	.0	.1	.2	.6	.0	.0		1.0
10-11	.0	.0	.2	.1	.0	.0		.3	.0	.0	.1	.4	.1	.0		.5
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.1	.2	.0	.0		.3
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	5.4	4.5	.7	.0	.0		11.3	.8	4.9	3.5	1.8	.3	.1		11.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.6	1.0	.1	.0	.0	.0		1.7	.1	.4	.1	.0	.0	.0		.5	
1-2	.3	3.3	1.4	.0	.0	.0		5.1	.1	2.2	.8	.0	.0	.0		3.1	
3-4	.0	2.1	2.2	.2	.0	.0		4.6	.1	1.0	2.0	.2	.0	.0		3.3	
5-6	.0	.2	2.5	.8	.0	.0		3.6	.0	.3	1.6	.4	.1	.0		2.3	
7	.0	.0	1.4	.9	.3	.0		2.6	.0	.0	.9	.7	.1	.0		1.7	
8-9	.0	.0	.3	1.0	.3	.0		1.7	.0	.1	.4	.6	.1	.0		1.2	
10-11	.0	.0	.3	.4	.1	.0		.8	.0	.0	.0	.5	.1	.0		.7	
12	.0	.0	.1	.3	.1	.0		.4	.0	.0	.0	.1	.1	.0		.1	
13-16	.0	.0	.0	.3	.1	.0		.3	.0	.0	.0	.2	.1	.0		.3	
17-19	.0	.0	.0	.2	.1	.0		.3	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.1	.1		.1	.0	.0	.0	.0	.0	.0		.1	
23-25	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.0	6.7	8.3	4.2	1.2	.1		21.3	.2	3.9	5.9	2.7	.5	.1		13.3	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.9	4.8	.4	.0	.0	.0	14.1	
1-2	3.2	19.4	5.6	.0	.0	.0	28.4	
3-4	.1	9.8	12.6	1.0	.0	.0	23.6	
5-6	.1	1.7	10.0	2.4	.2	.0	14.3	
7	.0	.2	5.5	2.5	.6	.1	8.8	
8-9	.0	.2	1.3	3.2	.5	.0	5.2	
10-11	.1	.0	.6	1.8	.6	.0	3.0	
12	.1	.0	.3	.6	.1	.0	1.0	
13-16	.0	.0	.1	.5	.2	.0	.7	
17-19	.0	.0	.0	.3	.2	.0	.4	
20-22	.0	.0	.0	.1	.1	.1	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.4	36.3	36.3	12.4	2.5	.2	100.0	1914

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4.5	.8	4.0	5.6	4.8	3.1	1.4	.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	502	5
6.7	.0	.4	3.4	5.2	5.3	4.4	2.7	1.3	1.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	595	7
8.9	.0	.2	1.2	3.6	4.7	3.6	4.3	1.9	2.3	1.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	562	9
10-11	.0	.6	.5	1.3	2.2	1.1	1.7	1.1	1.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	257	9
12-13	.0	.0	.8	.7	.4	.7	.8	.5	1.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	132	9
14.5	.0	.0	.0	.4	.3	.0	.3	.4	.2	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	53	11
16.7	.7	.7	1.7	2.1	1.9	1.1	1.3	.8	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	283	6
TOTAL	80	139	312	433	427	295	282	154	180	65	25	7	5	0	0	0	0	0	0	2384	7
PCT	2.5	5.8	13.1	18.2	17.9	12.4	11.8	6.5	7.6	2.7	1.0	.3	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1874-1975
(OVER-ALL) 1854-1975

JUNE

AREA 0019 CAPE TOWN
34.35 18.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.3	2.9	1.1	.0	.0	.0	.0	10.3	3.2	1.7	2.6	.0	1.4	.0	80.7
NE	2.3	1.7	.4	.0	.0	.0	.0	4.4	.4	1.3	2.8	.4	1.6	.0	89.0
E	.6	.3	.8	.0	.0	.0	.0	1.7	.5	.5	1.6	.0	1.4	.3	94.0
SE	1.9	.5	1.7	.0	.0	.0	.3	4.1	1.5	1.0	2.9	.3	1.0	.0	89.3
S	1.7	2.1	1.8	.0	.0	.0	.0	5.4	2.5	1.0	4.9	.0	.6	.0	85.5
SW	5.1	5.0	3.2	.0	.0	.0	.1	12.5	6.8	1.1	.8	.3	.1	.0	78.4
W	4.8	4.9	1.4	.0	.0	.0	.2	11.1	4.5	1.2	1.1	.0	.5	.0	81.7
NW	8.4	7.1	1.5	.0	.0	.0	.1	16.9	3.4	1.4	2.6	.0	.4	.1	75.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5	1.4	.5	.0	.0	.0	.0	2.3	.0	5.0	17.6	.0	2.3	.0	73.0
TOT PCT	4.3	3.7	1.5	.0	.0	.0	.1	9.4	3.0	1.4	3.2	.1	.8	.1	82.2
TOT OBS:	3688														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.5	4.3	1.4	.0	.0	.0	.0	9.9	2.8	2.8	4.8	.3	.6	.1	76.9
06009	4.8	3.9	1.8	.0	.0	.0	.0	10.3	4.2	.7	2.4	.0	.7	.0	81.6
12015	4.0	3.7	1.0	.0	.0	.0	.2	8.7	2.3	.4	2.2	.1	1.7	.1	84.8
18021	4.1	3.0	1.4	.0	.0	.0	.1	8.4	3.1	2.1	3.0	.1	.5	.0	83.0
TOT PCT	4.3	3.7	1.4	.0	.0	.0	.1	9.3	3.1	1.5	3.1	.1	.9	.1	82.1
TOT OBS:	3924														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	4.0	3.1	1.6	.5	.2		10.3	14.3		9.5	10.1	11.4	14.8	11.4	10.6	8.1	11.3
NE	.9	3.7	1.9	.4	*	.0		6.9	9.8		7.3	8.1	7.9	5.9	6.8	6.3	5.6	6.0
E	.8	4.2	2.8	1.0	.1	.0		9.1	11.7		10.1	10.4	9.5	7.8	8.3	8.1	8.7	8.5
SE	.9	4.5	3.4	1.2	.1	*		10.0	11.9		10.7	10.3	9.4	4.8	8.8	10.6	11.7	9.9
S	.8	3.7	2.6	1.0	.2	*		8.3	12.3		9.4	7.7	8.6	8.3	7.3	7.9	9.4	11.0
SW	.7	3.7	3.2	1.6	.7	.2		10.1	15.6		9.7	10.4	8.8	8.9	10.0	10.4	11.6	10.7
W	.8	5.9	7.1	4.0	1.7	.7		20.1	18.0		19.5	16.3	20.5	22.2	21.6	21.0	19.6	17.9
NW	.8	5.7	6.6	4.6	1.7	.7		20.1	18.5		18.3	19.1	19.4	26.5	22.0	19.7	19.8	23.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0		5.4	7.7	4.5	.9	3.9	5.3	5.5	1.1
TOT OBS	1054	3201	2769	1405	447	157	9033		14.3		1464	985	1429	115	2519	862	1568	91
TOT PCT	11.7	35.4	30.7	15.6	4.9	1.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.9	3.8	2.4	.8	.3		10.3	14.3	9.7	11.6	11.2	8.3
NE	2.5	3.3	1.0	.1	*		6.9	9.8	7.7	7.8	6.7	5.6
E	2.9	4.0	1.6	.5	*		9.1	11.7	10.2	9.4	8.2	8.6
SE	3.0	4.4	2.1	.5	*		10.0	11.9	10.6	9.1	9.3	11.6
S	2.5	3.6	1.6	.6	.1		8.3	12.3	8.7	8.5	7.4	9.5
SW	2.3	3.7	2.5	1.1	.4		10.1	15.6	9.9	8.8	10.1	11.6
W	3.4	7.2	5.4	3.0	1.2		20.1	18.0	18.2	20.7	21.4	19.5
NW	3.1	6.9	6.1	2.7	1.3		20.1	18.5	18.6	19.9	21.4	20.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	6.3	4.3	4.3	5.3
TOT OBS	2501	3340	2054	838	300	9033		14.3	2449	1544	3381	1659
TOT PCT	27.7	37.0	22.7	9.3	3.3		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1874-1975
(OVER-ALL) 1854-1975

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TABLE 4

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	6.3	6.9	35.8	29.1	15.5	4.8	1.6	13.9	100.0	2449
0600Z	4.3	6.1	38.9	31.5	14.3	3.8	1.0	13.6	100.0	1544
1201Z	4.3	6.6	33.4	30.9	16.5	6.0	2.4	15.2	100.0	3381
1802Z	5.3	7.1	35.9	31.5	14.9	4.0	1.3	13.8	100.0	1659
TOT	453	601	3201	2774	1404	447	197	14.3		9033
PCT	5.0	6.7	35.4	30.7	15.6	4.9	1.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & Obscd	TOTAL Obs	MEAN CLOUD COVER
N	3.1	.7	2.4	1.6		4.2
NE	4.0	1.1	1.1	.4		2.4
E	6.3	1.6	1.9	.6		2.4
SE	5.6	1.4	1.6	.8		2.6
S	3.3	2.6	2.9	1.2		3.8
SW	2.6	2.8	3.6	1.4		4.3
W	7.1	4.8	7.8	4.8		4.5
NW	4.9	3.0	6.0	4.7		4.8
VAR	.0	.0	.0	.0		.0
CALM	2.4	.2	.5	.3		2.1
TOT OBS	959	417	679	388	2443	3.8
TOT PCT	39.3	17.1	27.8	15.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	OBS
*	.1	.3	.6	1.1	.3	.1	.1	.0	.1	5.1		
*	.0	*	.1	.2	.2	.1	*	*	*	5.9		
*	.0	*	.2	.3	.4	*	.1	.0	.1	9.2		
.1	.1	*	.2	.8	.4	.1	*	*	*	7.5		
.0	.1	.1	.8	1.5	.6	.1	.1	.0	.0	6.7		
.3	.1	.4	2.4	4.2	1.6	.6	.2	.0	*	14.1		
.1	.1	.4	2.0	3.3	1.4	.8	.3	.0	.1	10.1		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.1	.0	.0	.1	.2	.0	.0	.1	.0	*	3.0		
.17	.12	.36	.167	.325	.147	.50	.25	.2	.11	1651		2443
.7	.5	1.5	6.8	13.3	6.0	2.0	1.0	.1	.5	67.6		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	.6	.6	.6	.7	.7	.7	.7
>5000	1.4	1.6	1.6	1.7	1.7	1.7	1.7	1.7
>3500	3.0	3.5	3.5	3.6	3.7	3.7	3.7	3.7
>2000	7.7	9.3	9.7	9.8	9.8	9.8	9.8	9.8
>1000	16.9	21.7	22.5	22.9	22.9	22.9	22.9	22.9
>600	20.7	27.5	29.0	29.4	29.4	29.4	29.5	29.5
>300	21.3	28.6	30.3	30.7	30.8	30.8	30.8	30.8
>150	21.5	29.0	30.8	31.1	31.2	31.2	31.3	31.3
>0	21.6	29.3	31.3	31.7	31.8	31.8	31.9	32.0
TOTAL	554	750	800	811	813	813	816	818

TOTAL NUMBER OF OBS: 2559

PCT FREQ NH <5/8: 68.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	Obscd	TOTAL OBS
25.5	12.7	11.0	10.5	8.1	5.2	7.4	7.2	12.0	.4	2734

PERIOD: (PRIMARY) 1874-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	.0	*	.1	.1	.0	.0	.2	
	NO PCP	*	*	.1	*	*	*	.1	.1	.0	.2	.6	
	TOT %	*	*	.1	.1	*	*	.1	.2	.0	.2	.8	
1/2<1	PCP	*	*	*	.0	.0	*	*	.1	.0	*	.2	
	NO PCP	.1	.1	.0	.2	.4	.1	.1	.3	.0	.8	2.0	
	TOT %	.1	.1	*	.2	.4	.1	.2	.3	.0	.8	2.2	
1<2	PCP	.0	.0	.0	*	*	.1	.1	.1	.0	*	.4	
	NO PCP	*	*	*	.1	.1	*	.1	.1	.0	.2	.6	
	TOT %	*	*	*	.1	.1	.1	.2	.3	.0	.2	1.0	
2<5	PCP	.2	*	*	.1	*	.2	.6	.5	.0	.0	1.6	
	NO PCP	.1	.1	*	.1	.1	*	.3	.3	.0	.1	1.2	
	TOT %	.4	.1	.1	.1	.1	.2	.9	.8	.0	.1	2.8	
5<10	PCP	.5	.2	.1	.1	.2	.6	1.0	2.5	.0	.1	5.4	
	NO PCP	1.9	.9	1.1	1.2	1.0	1.9	3.7	4.5	.0	1.6	17.9	
	TOT %	2.4	1.1	1.2	1.3	1.3	2.6	4.8	7.0	.0	1.7	23.3	
10+	PCP	.1	.1	.0	.1	.2	.2	.5	.2	.0	.0	1.5	
	NO PCP	5.6	4.9	7.6	6.9	7.5	6.3	15.0	11.7	.0	3.0	68.5	
	TOT %	5.7	4.9	7.6	7.0	7.7	6.5	15.6	11.9	.0	3.0	69.9	
TOT OBS													3680
TOT PCT		8.6	6.3	9.0	8.8	9.6	9.5	21.8	20.4	.0	6.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.0	*	*	*	*	*	.1	.1	.0		.3	
	11-21	.0	.0	*	*	.0	.0	*	.1	.0		.1	
	22+	.0	.0	.0	.0	.0	*	*	.2	.0		.2	
	TOT %	*	*	.1	*	*	.1	.1	.2	.0	.2	.8	
1/2<1	0-3	*	.1	*	.0	.1	.0	.1	*	.0	.7	1.0	
	4-10	*	.0	.0	.1	.1	*	*	.1	.0		.4	
	11-21	*	*	.0	*	.2	*	*	*	.0		.4	
	22+	*	.0	.0	.0	.0	.0	*	.1	.0		.1	
	TOT %	.1	.1	*	.1	.4	.1	.1	.3	.0	.7	1.9	
1<2	0-3	.0	.0	.0	*	.0	.0	.0	*	.0	.2	.2	
	4-10	.0	*	*	*	*	.0	*	.1	.0		.3	
	11-21	*	*	.0	*	.1	*	.1	.1	.0		.4	
	22+	*	.0	.0	*	*	*	.1	.1	.0		.3	
	TOT %	.1	*	*	.1	.1	.1	.2	.4	.0	.2	1.2	
2<5	0-3	*	*	.0	.0	.0	.0	*	*	.0	.1	.2	
	4-10	.1	*	*	.1	.1	.1	.2	.2	.0		.7	
	11-21	.2	*	.1	.1	*	.1	.3	.4	.0		1.2	
	22+	.2	.0	.1	*	*	.1	.5	.5	.0		1.5	
	TOT %	.5	.1	.1	.2	.1	.3	1.0	1.1	.0	.1	3.6	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.2	.0	1.6	2.8	
	4-10	.7	.5	.6	.5	.6	.7	1.3	1.9	.0		6.9	
	11-21	.8	.2	.3	.4	.4	.9	1.7	2.3	.0		7.0	
	22+	.6	.2	.1	.2	.1	.6	1.5	2.0	.0		5.4	
	TOT %	2.3	1.0	1.2	1.3	1.2	2.4	4.6	6.4	.0	1.6	22.1	
10+	0-3	.6	.7	.6	.6	.6	.4	.6	.3	.0	3.3	7.6	
	4-10	3.0	3.5	3.7	3.6	3.7	3.4	5.4	4.3	.0		30.6	
	11-21	1.8	1.1	2.5	2.4	2.5	1.9	6.4	4.9	.0		23.5	
	22+	.6	.1	.8	.6	.6	.7	2.9	2.5	.0		8.8	
	TOT %	6.0	5.5	7.6	7.2	7.4	6.3	15.2	12.0	.0	3.3	70.5	
TOT OBS													4358
TOT PCT		8.9	6.7	9.1	9.0	9.3	9.2	21.3	20.4	.0	6.1	100.0	

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PERIOD: (PRIMARY) 1874-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.3	.3	.7	5.4	12.5	5.9	1.5	1.3	.2	.3	28.4	71.6	609
06009	1.0	.8	2.0	9.0	14.9	7.3	1.5	1.1	.0	.6	38.3	61.7	711
12015	.7	.3	1.3	5.5	12.7	4.8	2.4	.8	.1	.7	29.4	70.6	746
18021	.5	.3	1.3	5.1	9.7	5.4	2.0	.8	.2	.5	25.9	74.1	607
TOT	17	12	36	149	336	157	50	27	3	14	821	1852	2673
PCT	.6	.4	1.3	6.3	12.6	5.9	1.9	1.0	.1	.5	30.7	69.3	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	4.1	1.0	2.6	25.4	65.9	1237
06009	.9	.6	1.1	5.5	21.6	70.3	1054
12015	.5	.8	1.3	3.4	22.4	71.5	1309
18021	.6	1.9	1.5	2.3	21.4	72.2	994
TOT	35	87	56	158	1048	3210	4594
PCT	.8	1.9	1.2	3.4	22.8	69.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	1.7	8.9	21.2	69.9	584
06009	1.0	4.2	15.9	24.5	59.6	690
12015	.7	2.5	10.1	21.3	68.6	714
18021	.5	2.1	8.6	19.3	72.2	571
TOT	17	69	283	555	1721	2559
PCT	.7	2.7	11.1	21.7	67.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.1	.1	.0	*	*	.0	.0	.0	7	.2
70/74	.0	*	*	*	.1	.1	.1	.0	12	.4
65/69	.0	.1	.3	.7	1.5	1.2	1.2	.1	149	5.1
60/64	.0	.0	.3	1.4	6.3	12.3	15.3	8.7	1301	44.3
55/59	.0	.0	.1	2.6	6.9	12.3	14.0	9.2	1324	45.1
50/54	.0	.0	.0	.1	.8	1.2	1.3	1.1	132	4.5
45/49	.0	.0	.0	.0	.0	*	.2	.2	12	.4
TOTAL	2	8	23	143	457	795	942	567	2937	100.0
PCT	.1	.3	.8	4.9	15.6	27.1	32.1	19.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	*	.0	.0	.0	.1	.0	.1
.1	.1	.1	*	*	.0	*	.1	.0	.1
.9	.8	.6	.3	.2	.2	.8	.9	.0	.5
4.0	2.9	4.8	3.6	2.7	3.5	10.6	10.6	.0	1.5
3.7	2.4	3.6	4.2	5.7	5.3	9.8	8.7	.0	1.7
.2	.1	.2	.4	.7	.8	.9	.8	.0	.4
.0	.0	.0	.0	.0	.1	*	*	.0	.2
8.9	6.3	9.4	8.5	9.4	9.9	22.2	21.1	.0	4.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	67	64	59	53	50	45	59.0	2426
06009	76	67	64	59	53	49	46	59.2	1558
12015	82	72	68	61	55	53	48	61.4	3312
18021	76	68	65	60	55	51	46	59.8	1652
TOT	82	69	66	60	54	51	45	60.1	8948

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.1	5.4	12.3	25.7	34.7	21.8	80	816
06009	.0	4.8	13.8	27.2	30.6	23.7	80	776
12015	.1	8.8	20.2	27.4	30.0	13.5	76	866
18021	.0	5.6	14.6	28.0	33.2	18.6	79	711
TOT	2	196	483	852	1010	606	79	3149

PERIOD: (PRIMARY) 1874-1975
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	7	.0	.2
11/13	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	11	.0	.3
9/10	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	21	.0	.6
7/8	.0	.0	.0	.3	.4	.3	.1	.0	.0	.0	35	.0	1.0
6	.0	.0	.1	.1	.1	.4	.0	.0	.0	.0	25	.0	.7
5	.0	.0	.1	.3	.9	.5	.1	.0	.0	.0	71	.1	2.0
4	.0	.0	.3	.6	1.2	.9	.0	.0	.0	.0	100	.1	2.9
3	.0	.0	.2	1.1	2.1	.7	.0	.0	.0	.0	139	.1	4.0
2	.0	.1	.4	1.4	3.6	.7	.0	.0	.0	.0	206	.1	5.9
1	.0	.1	.9	3.6	5.2	.4	.1	.0	.0	.0	347	.1	10.2
0	.0	.0	.7	5.0	6.2	.5	.0	.0	.0	.0	419	.1	12.3
-1	.0	.1	1.1	8.5	5.3	.2	.1	.0	.0	.0	518	.2	15.1
-2	.0	.1	1.2	7.9	3.2	.0	.0	.0	.0	.0	419	.1	12.3
-3	.0	.3	1.9	6.3	1.4	.1	.0	.0	.0	.0	337	.2	9.8
-4	.0	.2	2.1	4.3	1.3	.1	.0	.0	.0	.0	276	.2	8.0
-5	.0	.2	1.7	3.0	.6	.0	.0	.0	.0	.0	187	.2	5.3
-6	.0	.0	1.2	.9	.3	.0	.0	.0	.0	.0	82	.0	2.4
-7/-8	.1	.2	1.2	1.1	.3	.0	.0	.0	.0	.0	99	.1	2.8
-9/-10	.0	.1	.9	.3	.1	.0	.0	.0	.0	.0	46	.0	1.4
-11/-13	.1	.2	.3	.2	.1	.0	.0	.0	.0	.0	32	.0	.9
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	8	58	473	1530	1105	170	31	5	1	1	3384	50	3334
PCT	.2	1.7	14.0	45.2	32.7	5.0	.9	.1	.1	.0	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	.9	<1	.3	.2	.0	.0	.0	.0	.5
1-2	.3	2.0	.5	.0	.0	.0	2.8	1-2	.4	2.7	.3	.0	.0	.0	3.4
3-4	.1	.5	.9	.1	.0	.0	1.6	3-4	.1	.4	.7	.1	.0	.0	1.2
5-6	.0	.1	.4	.3	.1	.0	.8	5-6	.0	.1	.5	.0	.0	.0	.6
7	.0	.0	.5	.4	.1	.0	.9	7	.0	.1	.4	.1	.0	.0	.5
8-9	.0	.0	.1	.2	.0	.0	.4	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.2	.0	.0	.2	10-11	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.1	.1	.0	.2	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.1	2.4	1.2	.3	.0	7.8	TOT PCT	.8	3.4	1.9	.2	.0	.0	6.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.1	.0	.0	.0	.9	<1	.2	.4	.0	.0	.0	.0	.6
1-2	.3	2.6	.7	.0	.0	.0	3.6	1-2	.1	2.2	.7	.0	.0	.0	3.0
3-4	.0	1.0	1.8	.1	.0	.0	2.8	3-4	.0	1.8	1.3	.1	.0	.0	3.2
5-6	.0	.4	1.0	.3	.0	.0	1.6	5-6	.0	.2	1.0	.2	.0	.0	1.4
7	.0	.0	.2	.2	.0	.0	.4	7	.0	.0	.3	.1	.0	.0	.5
8-9	.0	.0	.1	.3	.0	.0	.4	8-9	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.1	.3	.0	.0	.4	10-11	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.1	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.4	3.9	1.2	.0	.0	10.1	TOT PCT	.3	4.7	3.6	.8	.0	.0	9.4

PERIOD: (OVER-ALL) 1963-1975

JUNE

AREA 0019 CAPE TOWN
34.35 18.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.7	.0	.0	.0	.0	.0	.8	.3	.8	.0	.0	.0	.0	.0	1.1
1-2	.1	2.7	.4	.0	.0	.0	.0	3.2	.1	2.5	.3	.0	.0	.0	.0	2.9
3-4	.0	1.4	1.4	.2	.0	.0	.0	3.0	.0	1.5	1.2	.0	.0	.0	.0	2.7
5-6	.0	.1	1.1	.1	.0	.0	.0	1.4	.0	.4	.7	.1	.0	.0	.0	1.3
7	.0	.2	.5	.1	.1	.0	.0	.9	.0	.1	.7	.2	.1	.0	.0	1.1
8-9	.0	.0	.1	.2	.0	.0	.0	.3	.0	.0	.3	.0	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.3
12	.0	.0	.1	.2	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
17-19	.0	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.1	3.8	1.1	.1	.0	.0	10.2	.4	5.3	3.3	.7	.3	.1	.0	10.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.8	.1	.0	.0	.0	.0	1.1	.1	.7	.1	.0	.0	.0	.0	.9	
1-2	.3	3.9	1.3	.0	.0	.0	.0	5.5	.1	2.5	1.6	.0	.0	.0	.0	4.2	
3-4	.0	2.7	3.9	.5	.0	.0	.0	7.1	.0	1.3	2.1	.5	.0	.0	.0	3.9	
5-6	.0	.2	3.1	.6	.0	.0	.0	4.0	.0	.3	1.5	1.2	.1	.0	.0	3.0	
7	.0	.0	1.7	1.1	.2	.0	.0	3.1	.0	.1	1.5	1.3	.0	.0	.0	2.8	
8-9	.0	.0	.3	.7	.2	.0	.0	1.3	.0	.0	.4	.3	.3	.0	.0	1.1	
10-11	.0	.1	.3	.7	.1	.0	.0	1.2	.0	.0	.1	.7	.2	.0	.0	1.0	
12	.1	.0	.0	.2	.1	.0	.0	.3	.0	.0	.1	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.4	.2	.0	.0	.6	.0	.0	.1	.3	.3	.0	.0	.7	
17-19	.0	.0	.1	.1	.2	.0	.0	.4	.0	.0	.0	.1	.1	.0	.0	.1	
20-22	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	7.7	10.8	4.5	1.1	.1	.0	24.8	.3	4.8	7.5	4.3	1.0	.0	.0	17.9	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.1	4.4	.2	.0	.0	.0	11.8	
1-2	2.4	20.8	5.6	.0	.0	.0	28.8	
3-4	.1	10.3	12.9	1.4	.0	.0	24.7	
5-6	.1	1.7	8.9	2.7	.0	.0	13.5	
7	.0	.4	5.6	3.3	.0	.0	9.8	
8-9	.0	.0	1.4	1.8	.0	.0	3.8	
10-11	.0	.1	.8	2.4	.3	.1	3.7	
12	.1	.1	.1	.5	.2	.0	1.0	
13-16	.0	.0	.1	.9	.6	.0	1.6	
17-19	.0	.1	.2	.3	.3	.0	.9	
20-22	.0	.0	.1	.1	.0	.0	.2	
23-25	.0	.0	.0	.1	.0	.1	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	37.9	35.9	13.6	2.8	.2	100.0	1771

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	3.5	5.2	3.7	2.6	.9	1.5	.4	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	432	5
6-7	.5	2.8	5.6	5.2	3.4	3.7	.8	2.2	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	576	8
8-9	.0	.2	1.0	2.9	4.7	4.0	3.1	2.2	3.0	.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	515	9
10-11	.0	.4	.4	.7	2.3	2.0	1.8	1.1	1.6	.7	.2	.4	.3	.0	.0	.0	.0	.0	.0	275	10
12-13	.0	.0	.5	.5	.8	.7	.5	.7	1.4	.8	.4	.1	.1	.0	.0	.0	.0	.0	.0	149	11
>13	.0	.0	.0	.6	.2	.7	.3	.5	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	78	11
INLET	1.7	.8	1.4	2.0	1.5	1.2	1.1	.2	.4	.2	.0	.2	.1	.0	.0	.0	.0	.0	.0	248	6
TOTAL	51	125	256	364	393	295	274	133	220	85	34	27	16	0	0	0	0	0	0	2273	8
PCT	2.2	5.5	11.3	16.0	17.3	13.0	12.1	5.9	9.7	3.7	1.5	1.2	.7	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1877-1975
(OVER-ALL) 1855-1975

JULY

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.8	4.2	1.6	.0	.0	.0	.0	8.5	1.6	1.5	1.9	.3	.6	.0	85.7
NE	.0	.2	.9	.0	.0	.0	.0	1.2	.1	.2	3.6	.0	1.7	.0	93.2
E	.1	.3	.0	.0	.0	.0	.0	.4	.3	.1	3.5	.3	1.0	.0	94.4
SE	1.1	1.3	.2	.0	.0	.0	.0	2.7	.3	.2	3.4	.0	1.5	.0	91.9
S	2.5	1.0	2.0	.0	.0	.0	.0	5.2	2.3	.4	1.6	.3	.7	.0	89.4
SW	2.9	4.1	.8	.0	.0	.0	.0	7.7	4.6	.4	.7	.0	.2	.0	86.4
W	2.6	4.0	1.4	.0	.0	.0	.0	7.8	4.6	.6	.7	.0	.6	.0	85.6
NW	2.7	6.5	1.7	.0	.0	.0	.0	10.9	4.0	.9	2.5	.2	.7	.0	80.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4	.4	.4	.0	.0	.0	.0	6.3	.0	2.1	18.8	.0	3.3	.0	70.0
TOT PCT	2.3	3.1	1.1	.0	.0	.0	.0	6.5	2.7	.6	3.0	.1	.9	.0	86.2
TOT OBS:	4033														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WU PCPN	FUG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	2.7	2.8	.7	.0	.0	.0	.0	6.1	3.3	2.1	6.3	.0	.6	.0	81.7
06009	2.2	3.2	1.7	.0	.0	.0	.0	6.8	3.1	.4	2.5	.2	1.2	.0	85.9
12015	1.7	4.0	.9	.0	.0	.0	.0	6.6	2.3	.0	2.0	.1	1.7	.0	87.2
18021	2.5	2.8	1.3	.0	.0	.0	.0	6.6	1.7	.5	2.3	.2	.5	.1	88.1
TOT PCT	2.3	3.2	1.1	.0	.0	.0	.0	6.6	2.6	.7	3.3	.1	1.0	*	85.7
TOT OBS:	4305														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	3.5	2.3	1.1	.4	.2		8.3	14.0		7.2	9.8	9.1	7.8	8.7	8.6	7.1	8.7
NE	.8	2.9	1.4	.4	.1	.0		5.5	9.9		5.6	5.7	7.3	6.5	5.7	3.5	4.5	4.0
E	.8	4.1	3.0	1.0	.1	*		9.1	11.9		10.2	9.4	9.3	7.3	8.5	8.4	8.8	12.7
SE	.7	4.6	4.6	1.6	.2	.1		11.8	13.5		12.3	13.3	11.1	10.4	10.6	13.2	12.2	13.0
S	.7	4.0	3.7	1.1	.2	*		9.7	12.8		9.4	7.4	8.7	9.5	9.6	11.6	11.1	12.0
SW	.7	4.3	3.8	1.9	.6	.1		11.4	15.1		11.7	10.5	11.1	13.1	11.8	10.0	12.3	8.5
W	1.2	6.0	6.9	4.3	2.0	.6		21.0	18.1		19.8	17.9	20.3	26.5	22.3	20.4	22.0	24.1
NW	1.0	5.3	5.9	3.9	1.7	.7		18.5	18.5		17.3	19.0	19.1	17.4	19.5	19.8	17.1	16.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7							4.7	.0		6.5	7.0	4.1	1.5	3.3	4.5	4.9	.9
TOT OBS	983	3053	2771	1347	456	154	8764		14.6		1439	901	1495	134	2334	774	1581	106
TOT PCT	11.2	34.8	31.6	15.4	5.2	1.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.5	3.1	1.5	.9	.3		8.3	14.0	8.2	9.0	8.7	7.2	
NE	2.2	2.5	.7	.2	*		5.5	9.9	5.6	7.2	5.2	4.5	
E	2.7	4.0	1.9	.4	*		9.1	11.9	9.9	9.2	8.5	9.0	
SE	2.4	5.5	3.1	.7	.1		11.8	13.5	12.7	11.0	11.2	12.2	
S	2.4	4.4	2.2	.5	.1		9.7	12.8	8.6	8.7	10.1	11.2	
SW	2.5	4.7	2.7	1.1	.4		11.4	15.1	11.2	11.2	11.4	12.1	
W	3.5	7.5	5.6	3.0	1.3		21.0	18.1	19.1	20.8	21.8	22.2	
NW	3.2	6.1	5.1	2.9	1.3		18.5	18.5	18.0	18.9	19.6	17.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.7						4.7	.0	6.7	3.9	3.6	4.6	
TOT OBS	2301	3316	1999	844	304	8764		14.6	2340	1629	3108	1687	
TOT PCT	26.3	37.8	22.8	9.6	3.5		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	6.7	6.7	34.2	31.8	13.5	5.4	1.7	14.1	100.0	2340
0600	3.9	9.8	37.1	30.9	16.1	4.2	1.0	14.2	100.0	1629
1200	3.6	6.2	34.1	30.7	16.9	6.1	2.4	15.4	100.0	3108
1800	4.6	6.6	34.9	33.8	14.5	4.2	1.4	14.0	100.0	1687
TOT	410	573	3053	2771	1347	456	154	14.6		8764
PCT	4.7	6.5	34.8	31.6	15.4	5.2	1.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	2.1	.9	1.8	1.0		4.1
NE	3.5	.7	.8	.2		1.9
E	6.8	1.3	1.2	.2		1.7
SE	6.0	1.6	1.6	.6		2.4
S	4.5	2.0	2.9	1.0		3.5
SW	4.0	3.1	4.5	1.7		4.2
W	7.6	4.8	10.0	3.7		4.3
NW	4.6	2.9	6.4	3.1		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.4	.5	.5	.2		2.5
TOT OBS	1150	507	840	391	2828	3.6
TOT PCT	40.7	17.9	29.7	11.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.1	*	.1	.4	.8	.3	.1	*	.0	.1	3.9	
NE	*	.0	*	*	.1	.1	*	.0	.0	.0	5.0	
E	*	.0	.1	.2	.4	.1	*	.0	*	.0	8.7	
SE	*	.0	*	.2	1.0	.3	.1	.1	*	.1	8.0	
S	.0	.0	.2	.7	1.1	.6	.3	.1	*	.0	7.3	
SW	.0	*	.2	.9	2.3	1.3	.4	*	.0	.0	8.2	
W	.1	.0	.4	2.3	5.0	2.3	.8	.1	*	.1	15.2	
NW	.1	.2	.2	1.6	3.0	1.4	.3	.1	.0	.2	9.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	.1	.1	.1	*	.0	.1	.0	2.2	
TOT OBS	10	7	32	179	388	185	59	11	6	16	1935	2828
TOT PCT	.4	.2	1.1	6.3	13.7	6.5	2.1	.4	.2	.6	68.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	.7	.8	.8	.8	.8	.8	.8	.8
* OR >5000	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
* OR >3500	2.5	3.1	3.2	3.2	3.2	3.2	3.2	3.2
* OR >2000	7.8	9.3	9.5	9.6	9.6	9.6	9.6	9.6
* OR >1000	17.8	22.2	22.8	22.9	22.9	22.9	22.9	22.9
* OR >600	21.9	28.0	29.1	29.2	29.2	29.2	29.2	29.2
* OR >300	22.5	29.0	30.2	30.3	30.3	30.3	30.3	30.3
* OR >150	22.6	29.1	30.4	30.6	30.6	30.6	30.6	30.6
* OR > 0	22.7	29.2	30.5	30.7	30.8	30.9	30.9	30.9
TOTAL	666	859	897	903	904	907	908	909

TOTAL NUMBER OF OBS: 2938

PCT FREQ NH < 5/8: 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	25.4	13.1	12.4	10.2	7.2	6.5	7.3	8.1	9.6	.2	3085

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	*	.0	.0	.0	.0	*	*	.1	.0	.1	.3	
	NO PCP	*	.0	*	*	.1	*	*	.1	.0	.1	.4	
	TOT %	*	.0	*	*	.1	*	.1	.2	.0	.2	.7	
1/2<1	PCP	.1	*	.0	*	*	*	*	.2	.0	.1	.5	
	NO PCP	*	.1	.1	.2	.1	*	*	.3	.0	.9	1.7	
	TOT %	.1	.1	.1	.2	.1	*	.1	.5	.0	1.0	2.2	
1<2	PCP	*	.0	.0	.1	.0	.0	*	*	.0	.0	.2	
	NO PCP	*	*	.1	.1	.1	.0	.0	.2	.0	.4	.9	
	TOT %	.1	*	.1	.2	.1	.0	*	.2	.0	.4	1.1	
2<5	PCP	.1	.0	.0	*	.1	.2	.3	.3	.0	.1	1.1	
	NO PCP	.2	.0	*	.1	*	.1	.4	.1	.0	.1	.9	
	TOT %	.3	.0	*	.1	.2	.3	.6	.5	.0	.2	2.1	
5<10	PCP	.3	*	*	.1	.2	.5	.8	1.1	.0	*	3.1	
	NO PCP	1.4	.7	1.1	2.3	1.0	1.8	3.6	4.3	.0	1.3	17.5	
	TOT %	1.7	.7	1.2	2.4	1.2	2.2	4.5	5.3	.0	1.4	20.6	
10+	PCP	*	.0	.0	*	.1	.2	.6	.2	.0	*	1.2	
	NO PCP	4.5	4.4	7.7	8.1	7.8	8.7	17.0	11.1	.0	2.7	72.0	
	TOT %	4.5	4.4	7.7	8.1	7.9	8.9	17.6	11.3	.0	2.7	73.2	
TOT OBS													
TOT PCT		6.8	5.2	9.1	11.1	9.5	11.4	22.9	18.0	.0	5.9	100.0	4030

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.2	.3		
	4-10	*	.0	*	*	*	*	.1	.1	.0	.3			
	11-21	.0	.0	.0	*	*	.0	*	*	.0	.1			
	22+	*	.0	.0	.0	.0	*	.0	.1	.0	.1			
	TOT %	*	.0	*	.1	.1	*	.1	.2	.0	.2	.7		
1/2<1	0-3	*	.0	.0	.0	*	*	.0	*	.0	.9	.9		
	4-10	.0	.1	.1	.2	*	.0	*	.2	.0	.5			
	11-21	*	.0	*	*	*	.0	*	.1	.0	.2			
	22+	*	.0	.0	*	*	*	*	.1	.0	.2			
	TOT %	.1	.1	.1	.2	.1	*	.1	.4	.0	.9	1.9		
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.4	.4		
	4-10	*	*	.1	.1	.1	*	.0	.1	.0	.5			
	11-21	*	.0	.0	.1	*	.0	*	*	.0	.2			
	22+	.1	.0	.0	.0	.0	.0	.0	*	.0	.1			
	TOT %	.1	*	.1	.2	.1	*	.1	.2	.0	.4	1.1		
2<5	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.1	.2		
	4-10	.1	*	.0	.1	.1	.1	.1	.1	.0	.6			
	11-21	.1	*	*	*	.1	.1	.1	.2	.0	.6			
	22+	.2	*	.0	*	*	.2	.4	.3	.0	1.2			
	TOT %	.4	.1	*	.2	.2	.3	.7	.6	.0	.1	2.5		
5<10	0-3	.2	.1	.1	.2	.1	.1	.1	.4	.0	1.2	2.5		
	4-10	.6	.3	.5	.7	.4	.5	.9	1.6	.0		5.6		
	11-21	.4	.2	.4	.8	.5	.9	1.3	1.5	.0		6.1		
	22+	.5	*	.1	.5	.2	.6	1.8	1.6	.0		5.4		
	TOT %	1.8	.6	1.1	2.3	1.2	2.1	4.2	5.2	.0	1.2	19.6		
10+	0-3	.5	.5	.6	.3	.7	.5	.8	.4	.0	2.9	7.2		
	4-10	2.5	2.4	3.6	3.9	4.0	4.2	5.8	3.6	.0		30.1		
	11-21	1.6	1.3	2.6	3.2	2.7	2.9	6.6	4.5	.0		25.4		
	22+	.5	.3	.9	.9	.5	1.3	4.1	3.1	.0		11.6		
	TOT %	5.1	4.4	7.7	8.3	7.9	8.9	17.4	11.6	.0	2.9	74.2		
TOT OBS														4777
TOT PCT		7.5	5.2	9.1	11.2	9.5	11.4	22.4	18.1	.0	5.7	100.0		

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	2000	2150	2300	2450	2600	2750	2900	3000	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	899	1199	1499	1799	2099	2399	2699	2999	3299	3599	3899	4199	4499	4799	5099	5399	5699	5999	6000+	27.0	670
00003	.4	.1	1.3	4.8	12.2	6.0	1.0	.1	.1	.1	.7	27.0	73.0	807										
06009	.4	.4	1.5	8.6	14.5	7.2	2.9	.6	.0	.6	36.6	63.4	807											
12015	.1	.4	.7	7.2	15.4	5.6	2.5	.2	.4	.6	32.9	67.1	853											
18021	.4	.1	.9	3.3	9.4	6.2	1.3	.4	.3	.3	22.7	77.3	691											
TOT	10	8	33	185	395	189	60	11	6	17	914	2107	3021											
PCT	.3	.3	1.1	6.1	13.1	6.3	2.0	.4	.2	.6	30.3	69.7	100.0											

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	1.4	4.3	1.0	1.9	21.0	70.4	1296
06009	.7	1.0	1.5	3.2	19.7	73.9	1203
12015	.1	1.1	1.3	2.5	22.4	72.6	1436
18021	.6	2.2	1.2	2.2	18.2	75.7	1114
TOT	36	108	62	122	1033	3688	5049
PCT	.7	2.1	1.2	2.4	20.5	73.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<500	<1	<5	AND 5+	AND 5+	OBS
00003	.5	2.2	8.1	20.5	71.4	644
06009	.4	2.4	11.6	25.8	62.5	790
12015	.1	1.2	10.2	23.7	66.0	830
18021	.4	1.5	6.1	17.5	76.4	674
TOT	10	53	270	651	2017	2938
PCT	.3	1.8	9.2	22.2	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
80/84	.0	*	.0	.0	.0	.0	.0	.0	1	*
75/79	.0	.0	*	.0	.0	.0	.0	.0	2	.1
70/74	.0	.1	*	.1	.1	.1	*	.0	13	.4
65/69	.0	.0	.2	.6	.6	.5	.4	.2	78	2.4
60/64	.0	.0	.2	1.4	4.6	9.6	9.4	3.7	934	29.0
55/59	.0	.0	.3	3.6	9.7	17.3	17.4	10.5	1896	58.8
50/54	.0	.0	.1	.5	1.9	2.1	2.7	1.5	281	8.7
45/49	.0	.0	.0	.1	.0	.1	.2	.2	19	.6
TOTAL	0	5	26	204	545	956	969	519	3224	100.0
PLT	.0	.2	.8	6.3	16.9	29.7	30.1	16.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	.0	*
75/79	.0	.0	.0	*	*	.0	.0	.0	*
70/74	.1	*	.1	*	.0	.1	*	.0	.1
65/69	.3	.3	.3	.2	.1	.1	.3	.5	.0
60/64	2.3	2.4	3.2	2.9	2.0	2.3	7.1	5.9	1.0
55/59	3.8	2.5	5.0	6.7	6.0	7.6	14.8	10.6	1.8
50/54	.3	.2	.4	.9	1.3	1.8	2.1	.9	.7
45/49	*	*	*	.1	.2	*	.0	.0	*
TOTAL	6.8	5.5	9.0	10.7	9.7	12.1	24.3	18.0	4.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	73	65	63	58	52	50	46	57.7	2362
06009	77	65	63	58	53	49	46	57.8	1656
12015	80	69	66	60	55	52	48	60.2	3099
18021	81	67	63	58	54	51	47	58.5	1699
TOT	81	68	64	59	53	50	46	58.8	8816

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	5.5	13.7	27.0	34.2	19.7	80	875		
06009	.0	5.5	15.6	30.8	29.6	18.5	79	844		
12015	.0	11.6	21.6	29.3	25.7	11.8	75	953		
18021	.0	6.0	15.2	31.0	31.8	16.1	78	785		
TOT	0	252	577	1018	1044	566	78	3457		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)													
AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WU FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	2	.0	.1
14/16	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	*	.1	.1	.0	.0	7	.0	.2
9/10	.0	.0	.0	.0	.1	*	.1	.0	.0	.0	5	.0	.1
7/8	.0	.0	.0	.1	.1	.4	*	.0	*	.0	20	*	.5
6	.0	.0	.0	.1	.1	.3	.0	.0	.1	.0	19	.0	.5
5	.0	.0	.1	.1	.8	.3	.1	.0	*	.0	51	*	1.4
4	.0	.0	*	.4	1.2	.3	.0	.0	.0	.0	67	.1	1.8
3	.0	.0	.1	.8	2.2	.3	*	.0	.0	.0	121	.1	3.3
2	.0	.0	.2	2.6	3.1	.1	.0	*	.0	.0	213	.1	5.9
1	.0	.0	.2	5.4	2.6	.2	.0	.0	.0	.0	297	.1	8.3
0	.0	.1	.9	9.5	3.8	.1	.0	.0	.0	.0	511	.3	14.1
-1	.0	*	1.9	10.3	1.8	.0	.0	.0	.0	.0	500	.2	13.9
-2	.0	.1	3.4	10.4	1.4	.1	.0	.0	.0	.0	549	.3	15.2
-3	.0	*	3.7	6.4	.8	.1	.0	.0	.0	.0	388	.2	10.7
-4	.0	.1	4.1	3.6	.4	.0	*	.0	.0	.0	293	.3	8.0
-5	.0	.3	3.1	1.9	.1	.0	.0	.0	.0	.0	195	.1	5.4
-6	.0	.3	1.7	.7	.1	.0	.0	.0	.0	.0	97	.1	2.7
-7/-8	.1	.6	1.8	.8	.1	.0	.0	.0	.0	.0	120	.0	3.4
-9/-10	.1	.4	.9	.5	.1	.0	.0	.0	.0	.0	87	*	1.9
-11/-12	*	.1	.2	.2	*	.0	.0	.0	.0	.0	18	.0	.5
-14/-16	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	10	.0	.3
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-20/-22	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	9		796		662		11		6		3555		
PCT	.3	2.2	22.4	53.8	18.6	2.2	.3	.1	.2	*	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N													
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
<1	.4	.8	*	.0	.0	.0	1.2	.1	.4	*	.0	.0	.0
1-2	.1	1.1	.3	.0	.0	.0	1.5	.4	1.8	.3	.0	.0	.0
3-4	.1	.7	.4	.1	.0	.0	1.4	*	.7	.5	.0	.0	.0
5-6	.0	.1	.7	.0	.0	.0	.8	.0	.1	.5	*	.0	.0
7	.0	.0	.3	.1	.0	.0	.4	.0	.1	*	*	.0	.0
8-9	.0	.0	.1	*	.0	.0	.1	.0	.0	.0	.1	.0	.0
10-11	.0	.0	*	.2	.1	.0	.3	.0	.0	.0	.1	.0	.0
12	.0	.0	.0	*	.1	.0	.1	.0	.0	.0	*	.0	.0
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.7	1.9	.6	.4	*	6.2	.5	3.2	1.4	.2	.0	.0

SE													
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
<1	.1	.8	.0	.0	.0	.0	.8	.1	.3	.0	.0	.0	.0
1-2	.2	2.4	.5	.0	.0	.0	3.1	.2	3.1	.4	.0	.0	.0
3-4	.1	.9	1.2	.3	.0	.0	2.5	.0	1.6	.9	.1	.0	.0
5-6	.0	.2	1.0	.3	*	.0	1.6	.0	.1	1.2	.2	.1	.0
7	.0	.0	.4	.3	.0	.0	.7	.0	.1	.5	.1	*	.0
8-9	.0	.0	*	.4	.0	.0	.4	.0	.0	.1	.1	.1	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.1	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	3.2	1.6	*	.0	9.4	.3	5.2	3.3	.9	.2	.0

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.4	.0	.0	.0	.0	.7	.4	.5	.0	.0	.0	.0	.9	
1-2	.2	2.9	.5	.0	.0	.0	3.5	.2	2.3	.2	.0	.0	.0	2.7	
3-4	.0	1.4	1.9	.0	.0	.0	3.3	.0	1.5	.9	.0	.0	.0	2.4	
5-6	.0	.2	.9	.1	.0	.0	1.3	.0	.4	1.1	.6	.1	.0	2.1	
7	.0	.1	.3	.1	.0	.0	.5	.0	.2	.5	.8	.0	.0	1.5	
8-9	.0	.0	.3	.1	.0	.0	.4	.0	.1	.4	.3	.0	.0	.9	
10-11	.0	.0	.4	.1	.0	.0	.5	.0	.1	.1	.3	.0	.0	.5	
12	.0	.0	.0	.1	.0	.0	.1	.1	.1	.0	.2	.0	.0	.3	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	5.0	4.4	.6	.1	.0	10.6	.7	5.1	3.3	2.4	.2	.0	11.7	

HGT	W							NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.9	.0	.0	.0	.0	1.3	.3	.9	.0	.0	.0	.0	1.2	
1-2	.5	3.8	.9	.0	.0	.0	5.2	.2	2.2	1.0	.0	.0	.0	3.4	
3-4	.1	2.0	3.5	.4	.0	.0	6.0	.0	1.4	2.3	.3	.0	.0	4.0	
5-6	.0	.6	2.9	1.5	.1	.0	5.1	.0	.3	2.3	.9	.1	.0	3.5	
7	.0	.1	1.5	1.1	.4	.0	3.1	.0	.1	.8	1.2	.2	.0	2.3	
8-9	.0	.0	.5	1.0	.1	.0	1.7	.0	.1	.4	.7	.0	.0	1.1	
10-11	.0	.1	.3	1.0	.1	.1	1.6	.0	.0	.1	.6	.2	.1	1.0	
12	.0	.0	.0	.5	.2	.0	.8	.0	.0	.0	.2	.1	.0	.3	
13-16	.0	.0	.1	.2	.0	.0	.9	.0	.0	.0	.2	.2	.0	.4	
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	7.6	9.8	6.3	1.5	.1	26.2	.5	5.0	6.9	4.3	.9	.1	17.6	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.1	5.3	.1	.0	.0	.0	12.4	
1-2	2.3	19.5	4.0	.0	.0	.0	25.8	
3-4	.2	9.9	11.3	1.3	.0	.0	22.7	
5-6	.0	1.9	10.4	3.5	.4	.0	16.1	
7	.0	.4	4.3	3.5	.6	.0	9.0	
8-9	.0	.2	1.8	2.7	.2	.0	4.9	
10-11	.0	.2	.9	2.7	.4	.1	4.3	
12	.1	.1	.1	1.0	.5	.1	1.7	
13-16	.0	.0	.2	1.2	.7	.0	2.0	
17-19	.0	.0	.0	.2	.3	.1	.5	
20-22	.0	.0	.1	.2	.1	.0	.4	
23-25	.0	.0	.0	.1	.0	.1	.1	
26-32	.0	.0	.0	.1	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.6	37.6	33.1	16.2	3.2	.3	100.0	1911

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.9	2.9	4.1	3.1	1.7	.9	1.2	.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	396	5
6-7	*	.3	2.2	4.4	4.3	3.8	3.5	1.5	1.7	.5	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	567	8
8-9	.0	.2	1.1	2.5	4.0	3.7	4.3	2.3	3.8	1.4	.5	.2	*	.0	.0	.0	.0	.0	.0	.0	603	10
10-11	.0	*	.4	1.2	2.1	2.2	2.2	1.5	2.9	1.0	.7	.2	.3	.1	.0	.0	.0	.0	.0	.0	373	11
12-13	.0	.0	.2	.3	.6	1.2	1.3	.9	1.8	.6	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	191	12
>13	.0	.0	.0	.1	.6	.3	.2	.4	1.1	.4	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	106	14
INDET	1.6	.5	1.2	1.0	1.4	1.6	1.5	.6	1.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	281	7
TOTAL	64	98	231	314	369	345	362	188	330	108	67	24	12	5	0	0	0	0	0	0	2517	9
PCT	2.5	3.9	9.2	12.5	14.7	13.7	14.4	7.5	13.1	4.3	2.7	1.0	.5	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1873-1975
(OVER-ALL) 1854-1975

AUGUST

AREA 0019 CAPE TOWN
34.35 18.52

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FR7N PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.6	.7	3.4	.0	.0	.0	.0	11.3	2.0	.5	2.8	.0	1.7	.7	80.4
NE	.6	.0	.8	.0	.0	.0	.0	1.5	.8	2.3	2.4	.0	2.3	.0	90.8
E	1.4	.3	.0	.0	.0	.0	.0	1.7	.3	1.3	1.8	.3	1.4	.0	93.3
SE	2.2	.4	.6	.0	.0	.0	.0	2.9	1.8	.9	2.7	.0	1.2	.1	90.7
S	2.2	2.9	1.9	.0	.0	.0	.0	7.0	2.3	.0	3.2	.0	.5	.2	86.9
SW	2.3	2.6	1.3	.0	.0	.0	.1	6.3	4.4	.2	1.4	.2	.2	.0	87.4
W	3.3	3.5	2.3	.0	.0	.0	.1	9.3	6.9	.3	.4	.2	.4	.0	82.6
NW	3.6	3.0	4.0	.0	.0	.0	.0	10.4	2.8	.9	2.3	.2	.8	*	82.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	1.5	.5	.0	.0	.0	.0	3.0	.0	8.9	12.8	.0	2.5	.0	72.9
TOT PCT	2.8	2.1	1.9	.0	.0	.0	*	6.8	3.3	1.1	2.4	.1	.9	.1	85.4
TOT OBS:	3735														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FR7N PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.1	1.7	1.8	.0	.0	.0	.0	6.5	3.1	2.9	4.2	.0	.4	.0	82.9
06009	2.7	2.4	2.3	.0	.0	.0	.1	7.5	4.4	.6	1.9	.5	1.1	.0	84.0
12015	2.8	2.4	1.9	.0	.0	.0	.0	7.1	1.7	.0	1.3	.0	1.8	.3	87.8
18021	2.4	1.9	1.8	.0	.0	.0	.0	5.8	3.7	1.5	2.6	.0	.5	.0	85.7
TOT PCT	2.8	2.1	1.9	.0	.0	.0	*	6.8	3.2	1.2	2.5	.1	1.0	.1	85.2
TOT OBS:	3916														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	2.1	2.1	1.0	.3	.1		6.2	14.7		6.6	6.9	6.9	10.0	6.4	5.6	4.6	2.7
NE	.5	2.2	1.4	.3	*	*		4.5	10.6		4.4	4.5	5.6	8.2	5.1	2.9	2.8	8.3
E	.7	4.1	3.4	1.5	.3	.1		10.2	13.5		10.6	11.7	11.6	9.4	9.6	9.7	8.9	9.7
SE	.7	5.0	4.2	2.3	.7	*		13.0	14.8		14.3	13.0	11.2	9.8	11.3	14.4	15.2	14.8
S	1.0	4.4	3.3	1.4	.3	*		10.5	12.9		10.1	8.4	10.2	4.9	10.7	11.7	11.9	11.3
SW	1.0	5.1	4.7	1.7	.5	.2		13.3	14.4		12.1	12.3	12.2	11.5	13.5	14.8	15.1	12.6
W	1.0	6.1	7.3	5.1	1.8	.5		21.8	18.2		21.5	18.0	21.3	25.0	23.7	18.8	23.3	23.7
NW	.8	4.5	5.2	3.8	1.3	.5		16.1	18.2		15.2	17.4	16.5	21.1	16.7	17.9	13.9	15.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0		5.1	7.9	4.5	.0	3.0	4.2	4.3	1.1
TOT OBS	865	2701	2545	1369	437	120	8037		14.9		1345	873	1372	122	2057	692	1483	93
TOT PCT	10.8	33.6	31.7	17.0	5.4	1.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.5	2.5	1.4	.6	.2		6.2	14.7	6.7	7.2	6.2	4.5		
NE	4.4	2.3	.6	.1	*		4.5	10.6	4.4	5.8	4.5	3.1		
E	2.5	4.4	2.5	.6	.2		10.2	13.5	11.0	11.4	9.6	8.9		
SE	2.7	5.6	3.1	1.3	.3		13.0	14.8	13.8	11.1	12.0	15.2		
S	2.9	4.4	2.2	.8	.1		10.5	12.9	9.4	9.8	10.9	11.9		
SW	3.2	5.5	3.2	.9	.4		13.3	14.4	12.2	12.1	13.9	14.9		
W	3.4	7.6	6.2	3.4	1.1		21.8	18.2	20.1	21.6	22.5	23.4		
NW	2.6	5.6	4.7	2.3	.9		16.1	18.2	16.1	16.8	17.0	14.0		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	4.4						4.4	.0	6.2	4.1	3.3	4.1		
TOT OBS	1986	3054	1920	819	258	8037		14.9	2218	1494	2749	1576		
TOT PCT	24.7	38.0	23.9	10.2	3.2		100.0		100.0	100.0	100.0	100.0		

AD-A032 604

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO), WEST AF--ETC(U)
NOV 76

F/6 4/2

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1997

PERIOD: (PRIMARY) 1873-1975
(OVER-ALL) 1854-1975

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34.35 16.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	6.2	6.6	34.1	30.4	16.5	5.0	1.3	14.2	100.0	2218
0600	4.1	6.6	34.2	32.3	16.8	4.9	1.1	14.6	100.0	1494
1200	3.3	6.5	31.6	32.8	17.2	6.5	2.1	15.7	100.0	2749
1800	4.1	5.5	35.9	30.9	17.8	4.7	1.1	14.6	100.0	1576
TOT	356	509	2701	2545	1369	437	170	14.9		8037
PCT	4.4	6.3	33.6	31.7	17.0	5.4	1.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.6	1.7	1.4		4.6
NE	2.3	.5	.8	.4		2.8
E	6.9	1.7	1.6	.4		2.1
SE	6.3	2.3	2.4	1.3		3.0
S	4.0	2.9	3.0	1.4		3.8
SW	4.5	3.1	4.5	2.2		4.2
W	7.4	4.8	8.6	5.3		4.5
NW	3.5	2.5	5.1	3.0		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.3	.2	.2	.2		2.0
TOT OBS	982	480	726	402	2590	3.9
TOT PCT	37.9	18.5	28.0	15.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIRECTION AND VELOCITY											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.2	.6	1.2	.4	.1	*	*	.0	2.9	
.0	.0	.0	.1	.2	.1	.2	.0	*	.0	3.5	
.0	.0	.0	.2	.4	.2	.2	.0	.1	*	9.4	
.0	.1	.2	.6	1.3	.4	.1	.0	*	.1	9.6	
*	.0	.1	.9	1.0	.8	.4	.0	*	*	7.9	
.0	.0	.3	1.3	2.2	1.2	.1	*	*	*	9.1	
.1	*	.5	2.5	5.2	1.8	.6	.3	.1	.2	14.6	
*	*	.4	1.7	2.9	1.1	.1	.1	*	*	7.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	1.5	
.6	4	44	207	373	159	48	13	8	12	1716	2590
.2	.2	1.7	8.0	14.4	6.1	1.9	.5	.3	.5	66.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.9	1.2	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2
= OR >2000	7.4	9.1	9.3	9.3	9.3	9.3	9.3	9.3
= OR >1000	16.0	22.6	23.4	23.4	23.4	23.4	23.5	23.5
= OR >600	22.4	29.7	31.0	31.2	31.2	31.2	31.3	31.3
= OR >300	23.2	31.1	32.6	32.8	32.9	33.0	33.0	33.0
= OR >150	23.2	31.1	32.7	32.9	33.0	33.1	33.1	33.1
= OR >0	23.2	31.3	32.8	33.1	33.2	33.3	33.4	33.4
TOTAL	622	838	880	886	890	892	894	894

TOTAL NUMBER OF OBS: 2679

PCT FREQ NH <5/8: 66.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
23.4	11.8	12.2	9.8	8.5	6.0	6.9	8.2	13.1	.1	2837

PERIOD: (PRIMARY) 1873-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	.0	*	.1	.0	.0	.2	
	NO PCP	*	*	*	.1	.1	*	*	.1	.0	.3	.8	
	TOT %	*	*	*	.1	.2	*	.1	.2	.0	.3	.9	
1/2<1	PCP	.1	.0	.0	.0	.0	.0	*	.1	.0	.1	.2	
	NO PCP	.1	.0	.1	.2	.2	.1	*	.1	.0	.3	1.1	
	TOT %	.2	.0	.1	.2	.2	.1	*	.2	.0	.4	1.3	
1<2	PCP	.0	.0	.0	*	*	*	*	.1	.0	.0	.2	
	NO PCP	.1	*	.0	.1	.1	.1	.1	.1	.0	.1	.7	
	TOT %	.1	*	.0	.1	.1	.1	.1	.3	.0	.1	.9	
2<5	PCP	.3	*	.0	.1	.1	.1	.3	.3	.0	*	1.1	
	NO PCP	.2	.1	.1	.1	.2	*	.3	.3	.0	.2	1.6	
	TOT %	.5	.1	.1	.2	.3	.1	.6	.5	.0	.2	2.7	
5<10	PCP	.3	*	.1	.2	.4	.5	1.1	.9	.0	.1	3.6	
	NO PCP	1.5	.7	1.1	1.9	1.7	2.3	3.9	3.5	.0	2.5	19.2	
	TOT %	1.8	.7	1.2	2.1	2.1	2.8	5.1	4.4	.0	2.5	22.8	
10+	PCP	*	.0	.1	.1	.2	.2	.6	.1	.0	.0	1.4	
	NO PCP	3.6	3.3	7.7	9.4	8.1	10.0	16.6	9.5	.0	1.8	69.9	
	TOT %	3.7	3.3	7.8	9.5	8.3	10.2	17.2	9.6	.0	1.8	71.3	
TOT OBS													3732
TOT PCT		6.2	4.2	9.1	12.1	11.3	13.4	23.1	15.2	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	*	.0	.0	.0	*	*	.0	.3	.4	
	4-10	*	*	*	*	.1	*	*	*	.0	.2		
	11-21	.0	*	.0	*	*	.0	*	*	.0	.1		
	22+	.0	.0	.0	*	*	.0	*	.1	.0	.2		
	TOT %	.1	*	*	*	.1	*	.1	.2	.0	.3	1.0	
1/2<1	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.3	.4	
	4-10	.1	.0	*	.1	.1	*	*	.1	.0	.4		
	11-21	*	.0	.0	.0	*	*	.0	*	.0	.1		
	22+	.1	*	*	*	*	.0	.0	*	.0	.2		
	TOT %	.2	*	.1	.1	.1	.1	*	.2	.0	.3	1.1	
1<2	0-3	*	.0	.0	*	*	*	.0	*	.0	.2	.3	
	4-10	*	*	.0	.1	.1	*	.1	.1	.0	.4		
	11-21	*	.0	.0	*	*	.0	*	*	.0	.1		
	22+	.0	.0	.0	*	.1	*	.1	.1	.0	.2		
	TOT %	.1	*	.0	.1	.1	.1	.1	.2	.0	.2	.9	
2<5	0-3	*	*	.0	*	*	.0	.0	*	.0	.2	.4	
	4-10	.1	*	*	*	.1	.1	.1	.2	.0	.7		
	11-21	.2	.1	.1	*	.1	*	.2	.2	.0	.8		
	22+	.2	.0	*	.1	*	.1	.4	.2	.0	1.0		
	TOT %	.5	.1	.1	.2	.3	.2	.6	.6	.0	.2	2.8	
5<10	0-3	.1	.1	.2	.1	.2	.2	.1	.4	.0	2.3	3.9	
	4-10	.5	.2	.3	.8	.6	.9	.9	1.2	.0	5.4		
	11-21	.6	.3	.4	.5	.7	1.1	1.8	1.2	.0	6.7		
	22+	.5	.1	.1	.5	.4	.4	2.1	1.3	.0	5.4		
	TOT %	1.7	.7	1.1	1.9	1.9	2.6	4.9	4.2	.0	2.3	21.4	
10+	0-3	.4	.3	.4	.4	.7	.7	.7	.4	.0	2.5	6.3	
	4-10	1.4	2.1	3.9	4.0	4.2	4.9	5.8	2.9	.0	29.1		
	11-21	1.6	.9	3.0	3.6	2.6	3.7	6.2	3.9	.0	25.5		
	22+	.6	.1	.8	1.5	.9	1.1	4.1	2.8	.0	11.9		
	TOT %	3.9	3.3	8.1	9.4	8.4	10.3	16.9	10.0	.0	2.5	72.7	
TOT OBS													4457
TOT PCT		6.3	4.2	9.5	11.9	11.0	13.3	22.7	15.4	.0	5.8	100.0	

PERIOD: (PRIMARY) 1873-1975
(OVER-ALL) 1854-1975

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.2	.2	1.1	8.9	12.9	6.0	1.1	.5	.0	.5	31.4	68.6	618
06009	.3	.1	2.7	8.8	16.9	6.4	2.5	.8	.4	.3	39.4	60.6	714
12015	.3	.3	1.5	6.2	13.3	7.0	2.4	.3	.5	.3	31.9	68.1	790
18021	.2	.0	1.2	6.7	11.5	4.1	1.4	.5	.2	.8	26.5	73.5	641
TOT PCT	6 .2	4 .1	46 1.7	210 7.6	380 13.8	164 5.9	53 1.9	14 .5	8 .3	12 .4	897 32.5	1866 67.5	2763 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.7	2.2	.6	2.8	21.7	71.0	1206
06009	.9	.5	1.0	3.9	21.5	72.1	1073
12015	.3	.4	1.5	2.8	23.9	71.0	1305
18021	1.0	1.4	.9	1.8	19.6	75.2	1053
TOT PCT	4.5 1.0	52 1.1	48 1.0	132 2.8	1011 21.8	3349 72.2	4637 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	1.9	12.7	21.1	66.3	584
06009	.3	3.1	13.7	27.0	59.3	701
12015	.3	2.2	9.9	23.0	67.1	775
18021	.2	1.5	8.9	18.7	72.4	619
TOT PCT	6 .2	59 2.2	302 11.3	606 22.6	1771 66.1	2679 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	*	.1	.1	.0	*	.0	8	.3
65/69	.0	.0	*	.4	.6	.6	.4	.1	64	2.1
60/64	.0	.0	.2	.8	3.4	8.1	8.0	2.5	693	23.0
55/59	.0	.0	.2	2.7	8.9	18.0	20.9	11.1	1859	61.8
50/54	.0	.0	*	.5	2.5	3.3	3.1	2.5	358	11.9
45/49	.0	.0	.0	.0	.1	.3	.2	.3	25	.8
40/44	.0	.0	.0	.0	.0	.0	*	*	1	*
TOTAL	0	0	15	135	468	909	983	498	3008	100.0
PCT	.0	.0	.5	4.5	15.6	30.2	32.7	16.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	*	*	*	*	.1	.1	.0	.0
.2	.3	.5	.1	.1	.1	.4	.3	.0	*
1.4	1.2	3.2	2.0	1.9	2.9	5.7	3.9	.0	1.8
4.3	2.3	5.1	8.0	7.3	8.6	14.7	9.6	.0	1.8
.2	.1	.5	1.5	1.9	2.7	2.8	1.0	.0	1.2
.0	.0	.0	.0	.1	*	.1	*	.0	.6
.0	.0	.0	.0	.0	.0	.0	.0	.0	*
6.1	4.0	9.4	11.7	11.3	14.3	23.9	14.9	.0	4.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	65	62	57	52	49	44	57.3	2198
06009	69	65	63	58	52	48	45	57.5	1499
12015	75	70	66	60	54	50	47	59.9	2720
18021	80	65	63	58	53	50	47	58.0	1589
TOT	80	67	64	58	53	49	44	58.4	8006

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.0	11.1	26.4	37.8	21.8	81	800
06009	.0	4.8	13.9	29.0	33.6	18.7	80	748
12015	.0	7.2	20.6	34.8	27.6	9.8	76	856
18021	.0	4.5	15.9	28.8	34.3	16.5	79	750
TOT	0	156	488	942	1046	522	79	3154

PERIOD: (PRIMARY) 1873-1975
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	WU FOG
14/16	.0	.0	.0	.0	*	*	*	.0	3	.0	.1
11/13	.0	.0	.0	.0	.0	.1	*	*	5	.0	.2
9/10	.0	.0	.0	*	.1	.3	.2	.0	19	.0	.6
7/8	.0	.0	.0	.1	.2	.4	*	.0	26	*	.8
6	.0	.0	*	.1	.2	.2	.0	.0	17	.0	.5
5	.0	.0	.1	.2	.9	.4	.0	.0	53	*	1.6
4	.0	.0	*	.6	1.3	.4	*	.0	75	.1	2.2
3	.0	.0	.0	1.1	1.9	.2	.0	.0	103	*	3.1
2	.0	.0	.3	3.2	3.0	.1	.0	.0	214	.1	6.5
1	.0	.0	.4	7.6	1.9	.1	.0	.0	324	.2	9.8
0	.1	.0	1.3	11.7	2.2	.1	.0	.0	498	.3	15.0
-1	.0	*	3.0	11.4	.9	.1	.0	.0	502	.2	15.2
-2	.0	.1	4.4	7.5	1.1	*	.0	.0	427	.1	13.0
-3	.0	.1	5.4	3.6	.4	.0	.0	.0	312	.1	9.5
-4	.0	.2	3.7	2.8	.2	.0	.0	.0	223	.2	6.7
-5	.0	.5	3.1	1.8	.1	.0	.0	.0	183	.1	5.6
-6	.0	.4	1.8	.8	.1	.0	.0	.0	101	.0	3.1
-7/-8	.1	.6	1.4	.7	.1	.0	.0	.0	92	.0	2.8
-9/-10	.0	.4	.6	.6	.0	.0	.0	.0	52	*	1.6
-11/-13	.0	.3	.2	.1	.0	.0	.0	.0	19	.0	.6
-14/-16	.0	.1	.2	.0	*	.0	.0	.0	9	.0	.3
-17/-19	.0	*	*	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	.4		852		474		9		3259	44	3215
PCT	.1	2.7	26.1	53.8	14.5	2.4	.3	*	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3	.1	.1	.0	.0	.0	.0	.3
1-2	.1	.9	.4	.0	.0	.0	1.4	.1	1.7	.2	.0	.0	.0	2.0
3-4	.0	.2	.8	*	.0	.0	1.1	.0	.6	.3	.1	.0	.0	1.0
5-6	.0	.2	.9	.3	.0	.0	1.3	.0	.2	.3	*	.0	.0	.5
7	.0	.0	.3	.2	.0	.0	.5	.0	.0	.2	*	.0	.0	.2
8-9	.0	.0	.1	*	.1	.0	.3	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	*	*	*	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.4	2.6	.7	.1	.0	5.0	.3	2.5	1.1	.1	.0	.0	4.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.1	.0	.0	.0	1.2	.4	.3	*	.0	.0	.0	.7
1-2	*	2.9	.7	.0	.0	.0	3.7	.1	2.8	.8	.0	.0	.0	3.8
3-4	.0	1.2	1.0	.1	.0	.0	2.4	.0	.9	1.1	.1	.0	.0	2.1
5-6	.0	.1	1.1	.4	.0	.0	1.7	.0	.2	1.4	.3	.0	.0	2.0
7	.0	.0	.3	.1	.1	.0	.5	.0	.1	.6	.4	.0	.0	1.1
8-9	.0	.1	.2	.1	.0	.0	.4	.0	.2	.1	.3	.0	.0	.6
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.1	.0	.3
12	.0	.0	*	.1	.1	.0	.2	.0	.0	*	*	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	*	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.1	3.5	.9	.2	.0	10.1	.5	4.6	4.2	1.6	.2	.0	11.1

PERIOD: (OVER-ALL) 1963-1975

AUGUST

TABLE 18 (CONT)

AREA 0019 CAPE TOWN
34.95 18.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	1.0	.4	.6	.1	.0	.0	.0	1.1
1-2	.3	2.1	.4	.0	.0	.0	2.9	.4	3.7	.4	.0	.0	.0	4.5
3-4	.1	1.3	1.1	.1	.0	.0	2.6	.1	1.3	1.8	.3	.0	.0	3.4
5-6	.0	.4	1.3	.3	.0	.0	1.9	.0	.3	1.9	.2	.0	.0	2.3
7	.0	.0	.4	.2	.1	.0	.7	.0	.2	.8	.5	.1	.0	1.7
8-9	.0	.0	.2	.3	.0	.0	.4	.0	.2	.2	.2	.0	.0	.6
10-11	.0	.0	.1	.2	.0	.0	.4	.0	.0	.1	.1	.1	.1	.4
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.1	.1	.0	.3
17-19	.0	.0	.0	*	*	.1	.1	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.5	3.5	1.3	.3	.1	10.4	.9	6.3	5.3	1.7	.4	.1	14.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.7	.1	.0	.0	.0	1.1	.1	.6	.0	.0	.0	.0	.7	
1-2	.1	4.2	1.2	.0	.0	.0	5.5	.1	2.0	.9	.0	.0	.0	3.0	
3-4	.1	2.0	3.6	.5	.0	.0	6.1	.0	.9	1.7	.3	.0	.0	2.8	
5-6	.0	.3	2.8	1.2	.2	.0	4.6	.0	.3	1.8	1.4	.4	.0	3.9	
7	.0	.4	2.2	1.2	.2	.0	3.9	.0	.0	.6	.8	.1	.0	1.5	
8-9	.0	*	.5	1.7	.1	.1	2.5	.0	.0	.2	.4	.3	.0	.9	
10-11	.0	.0	.3	1.1	.2	.0	1.5	.0	.0	.1	.4	.1	.0	.6	
12	.0	.0	*	.7	.4	.0	1.1	.0	.0	*	.1	.1	.0	.2	
13-16	.0	.0	.2	.4	.3	.0	.9	.0	.0	.0	.4	.2	.1	.7	
17-19	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	*	.0	*	
20-22	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.1	.1	.0	.1	
23-25	.0	.0	.0	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	7.6	11.0	7.0	1.9	.1	28.0	.1	3.8	5.3	4.0	1.2	.1	14.5	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	3.8	.3	.0	.0	.0	9.9	
1-2	1.8	20.3	5.0	.0	.0	.0	27.0	
3-4	.2	8.3	11.2	1.4	.0	.0	21.0	
5-6	.0	2.1	11.1	4.0	.6	.0	17.7	
7	.0	.7	5.2	3.4	.5	.0	9.8	
8-9	.0	.4	1.6	3.0	.4	.1	5.5	
10-11	.0	.0	.7	2.1	.4	.1	3.3	
12	.0	.0	.1	1.1	.8	.0	2.0	
13-16	.0	.0	.3	1.2	.6	.1	2.1	
17-19	.0	.0	.0	.4	.4	.1	.8	
20-22	.0	.0	.0	.2	.4	.0	.6	
23-25	.0	.0	.0	.1	.1	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	35.6	35.5	16.9	4.1	.2	100.0	1802

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	2.9	2.9	3.3	2.7	1.5	1.0	.4	1.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	371
6-7	.0	.4	2.9	4.0	5.4	3.4	3.4	1.1	2.2	1.1	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	554
8-9	.0	.2	.6	2.6	5.1	3.3	3.7	2.1	3.5	1.3	1.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	547
10-11	.0	.0	.1	.5	.9	2.1	1.9	1.9	2.5	1.2	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	318
12-13	.0	.0	.5	.5	.8	.9	1.1	.5	1.6	.8	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	183
>13	.0	.0	.0	.5	.7	.4	.6	.2	.7	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	91
INDET	1.1	.4	1.5	1.4	1.6	.8	.7	.4	.7	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	208
TOTAL	34	92	203	302	417	278	279	152	279	122	75	28	11	0	0	0	0	0	0	0	2272
PCT	1.5	4.0	8.9	13.3	18.4	12.2	12.3	6.7	12.3	5.4	3.3	1.2	.5	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1881-1975
(OVER-ALL) 1854-1975AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	3.7	5.1	1.5	.0	.0	.0	.0	10.2	.0	1.0	8.8	.0	1.5	.0	78.5		
NE	2.0	.9	.0	.0	.0	.0	.0	2.8	.0	.4	2.4	.0	2.4	.9	91.0		
E	.1	.9	.0	.0	.0	.0	.0	1.6	1.0	.2	2.0	.2	1.7	.0	93.3		
SE	.3	.3	.9	.0	.0	.0	.1	1.7	.6	.6	4.7	.2	.4	.1	91.7		
S	.8	1.1	.9	.0	.0	.0	.0	2.9	1.8	.9	2.4	.1	2.1	.0	89.9		
SW	2.5	2.3	.4	.0	.0	.0	.0	5.3	2.1	.5	.6	.0	1.1	.0	90.5		
W	1.8	1.9	2.1	.0	.0	.0	.0	5.9	4.9	.6	.8	.0	.6	.1	87.0		
NW	7.5	2.8	2.5	.0	.0	.0	.0	12.0	2.0	1.2	5.0	.0	1.1	.0	78.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.8	1.2	2.4	.0	.0	.0	.0	5.4	.0	4.2	9.0	.0	.6	.0	80.8		
TOT PCT	2.0	1.5	1.3	.0	.0	.0	*	4.7	2.0	.8	3.0	.1	1.1	.1	88.3		
TOT OBS:	3822																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
00003	1.6	1.6	1.6	.0	.0	.0	.0	4.8	1.9	2.3	4.6	.0	.8	.0	85.5		
06009	2.8	1.2	1.6	.0	.0	.0	.0	5.5	2.8	.3	2.2	.2	.9	.3	87.9		
12015	1.8	1.5	.7	.0	.0	.0	.1	4.1	1.4	.1	1.5	.2	2.0	.0	90.8		
18021	1.8	1.6	1.1	.0	.0	.0	.0	4.3	1.9	.5	4.0	.0	.7	.0	88.6		
TOT PCT	2.0	1.5	1.3	.0	.0	.0	*	4.7	2.0	.8	3.0	.1	1.1	.1	88.3		
TOT OBS:	3988																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	1.4	1.3	.5	.1	.1		3.6	14.4		2.8	4.3	3.9	6.7	4.4	3.7	2.5	5.1
NE	.3	1.7	1.2	.3	*	*		3.6	11.8		3.5	3.9	4.4	2.7	3.8	3.3	2.6	5.1
E	.4	3.7	4.6	1.9	.4	*		11.1	15.1		12.6	11.7	11.3	10.6	11.1	8.8	10.3	15.7
SE	.7	5.8	7.4	3.5	.7	.1		18.2	15.4		19.0	18.0	17.3	20.4	17.3	18.5	19.4	16.3
S	1.0	6.4	5.8	1.7	.3	*		15.1	12.8		15.9	12.1	14.8	15.4	13.5	17.7	17.0	19.2
SW	.8	6.1	4.7	1.8	.6	.1		14.2	13.8		12.5	14.6	13.7	12.1	14.4	16.2	15.3	6.4
W	.8	6.0	6.6	3.3	1.3	.4		18.4	16.7		17.7	15.6	18.6	19.4	19.7	17.2	19.1	19.9
NW	.7	3.3	4.0	2.7	.8	.3		12.0	17.6		11.0	13.3	12.5	11.0	12.9	12.6	10.3	9.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0		5.0	6.4	3.4	1.7	2.9	1.9	3.5	2.6
TOT DBS	696	2757	2856	1266	346	80	8001		14.5		1399	811	1437	120	1940	744	1472	78
TOT PCT	8.7	34.5	35.7	15.8	4.3	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.9	1.6	.8	.2	.1			3.6	14.4		3.4	4.1	4.2	2.6
NE	1.0	1.3	.7	.1	*			3.6	11.8		3.7	4.3	3.7	2.7
E	1.8	5.0	3.1	1.1	.1			11.1	15.1		12.3	11.3	10.5	10.6
SE	3.0	7.5	5.9	1.6	.3			18.2	15.4		18.6	17.6	17.6	19.3
S	3.5	7.2	3.6	.8	*			15.1	12.8		14.5	14.9	14.7	17.1
SW	3.2	6.4	3.2	1.0	.3			14.2	13.8		13.3	13.6	14.9	14.9
W	3.0	7.4	5.1	2.1	.8			18.4	16.7		16.9	18.7	19.0	19.1
NW	2.2	4.1	3.4	1.6	.7			12.0	17.6		11.8	12.4	12.8	10.2
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	3.7							3.7	.0		5.5	3.3	2.6	3.4
TOT DBS	1780	3282	2089	689	191	8001			14.5		2210	1557	2684	1550
TOT PCT	22.2	41.0	25.7	8.6	2.4			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1881-1975
(OVER-ALL) 1894-1975

SEPTEMBER

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	5.5	5.7	32.2	36.3	15.2	4.2	.9	14.2	100.0	2210	
0600	3.3	5.4	35.3	37.4	14.5	3.7	.4	14.0	100.0	1997	
1200	2.6	5.1	34.8	34.8	16.4	4.9	1.3	15.0	100.0	2684	
1800	3.4	3.4	36.3	34.6	17.0	4.1	1.2	14.7	100.0	1950	
PCT	296	400	2757	2856	1266	346	80	14.5		8001	
PCT	3.7	5.0	34.5	35.7	15.8	4.3	1.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & Obscd	TOTAL OBS	MEAN CLOUD COVER
N	.6	.3	.7	.7		4.9
NE	1.5	.7	.7	.3		3.2
E	6.7	1.8	2.5	1.8		3.2
SE	9.1	2.9	3.9	2.1		3.2
S	7.6	3.3	4.0	1.8		3.3
SW	3.8	3.2	5.2	1.6		4.3
W	5.6	5.2	8.2	3.0		4.5
NW	1.7	1.3	3.4	2.7		5.4
VAR	.0	.0	.0	.0		.0
CALM	1.0	.3	.4	.5		3.7
TOT OBS	981	491	749	376	2597	3.9
TOT PCT	37.8	18.9	28.8	14.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & Obscd	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 TOTAL OBS
N	.6	.3	.7	.7		4.9	.0	.0	.1	.5	.2	.1	.0	.0	.0	.0	1.3
NE	1.5	.7	.7	.3		3.2	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	2.7
E	6.7	1.8	2.5	1.8		3.2	.1	.1	.1	.5	1.1	.6	.2	.0	.1	.1	9.9
SE	9.1	2.9	3.9	2.1		3.2	.0	.1	.2	.9	1.8	.7	.1	.1	.1	.1	13.9
S	7.6	3.3	4.0	1.8		3.3	.1	.0	.2	.6	1.8	1.2	.3	.2	.0	.0	12.3
SW	3.8	3.2	5.2	1.6		4.3	.1	.0	.3	.8	2.0	1.0	.3	.2	.1	.1	8.9
W	5.6	5.2	8.2	3.0		4.5	.1	.1	.2	1.8	3.1	1.5	.6	.1	.1	.3	14.2
NW	1.7	1.3	3.4	2.7		5.4	.1	.0	.2	.7	2.2	.9	.4	.2	.1	.0	4.3
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.3	.4	.5		3.7	.0	.0	.1	.3	.1	.1	.0	.0	.0	.0	1.5
TOT OBS	981	491	749	376	2597	3.9	12	6	30	144	342	161	98	21	10	16	1797
TOT PCT	37.8	18.9	28.8	14.5	100.0		.5	.2	1.2	5.5	13.2	6.2	2.2	.8	.4	.6	69.2

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.3	1.6	1.8	1.8	1.8	1.8	1.8	1.8
>3500	3.4	3.8	4.0	4.0	4.0	4.0	4.0	4.0
>2000	8.7	9.8	10.1	10.1	10.1	10.1	10.1	10.1
>1000	19.4	22.5	23.2	23.3	23.3	23.3	23.3	23.3
>600	23.4	27.7	28.7	28.7	28.7	28.7	28.7	28.7
>300	24.1	28.7	29.8	29.9	29.9	29.9	29.9	29.9
>150	24.1	28.9	30.0	30.1	30.1	30.1	30.1	30.1
>0	24.2	29.2	30.4	30.5	30.5	30.6	30.6	30.6
TOTAL	653	787	819	822	823	824	825	826

TOTAL NUMBER OF OBS: 2696

PCT FREQ NH <5/8: 69.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	Obscd	TOTAL OBS
21.6	13.9	13.4	10.4	9.2	6.2	6.2	7.4	11.6	.2	2868

SEPTEMBER

PERIOD: (PRIMARY) 1881-1975
(OVER-ALL) 1854-1975

TABLE 8

AREA 0019 CAPE TOWN
34.35 18.5EPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.0	.0	.0	.2	.0	.1	.3	
	NO PCP	.1	*	.1	.3	.1	*	*	.2	.0	.3	1.1	
	TOT %	.1	*	.1	.3	.1	*	*	.4	.0	.3	1.4	
1/2<1	PCP	*	.0	.0	.0	.0	*	.1	*	.0	.0	.2	
	NO PCP	*	*	.1	.5	.2	*	*	.2	.0	.2	1.3	
	TOT %	.1	*	.1	.5	.2	.1	.1	.3	.0	.2	1.5	
1<2	PCP	*	.0	*	*	.0	*	.1	.1	.0	.0	.2	
	NO PCP	.1	*	.0	.1	.1	.1	.1	.1	.0	*	.6	
	TOT %	.1	*	*	.1	.1	.1	.1	.1	.0	*	.8	
2<5	PCP	*	.0	*	*	.1	.1	.2	.2	.0	*	.6	
	NO PCP	*	*	.2	.1	.1	.1	.2	.2	.0	.1	1.0	
	TOT %	.1	*	.2	.1	.1	.2	.3	.3	.0	.1	1.6	
5<10	PCP	.1	.1	.1	.2	.2	.2	.6	.7	.0	.1	2.2	
	NO PCP	.7	.4	1.3	4.1	2.7	2.2	3.3	3.3	.0	1.8	19.7	
	TOT %	.8	.5	1.3	4.3	2.9	2.4	3.9	3.9	.0	1.9	21.9	
10+	PCP	.1	*	*	.1	.2	.3	.3	.2	.0	*	1.3	
	NO PCP	1.6	2.4	9.5	13.5	12.3	10.3	14.6	5.7	.0	1.8	71.6	
	TOT %	1.6	2.4	9.6	13.6	12.5	10.6	14.9	5.9	.0	1.9	72.9	
TOT OBS													
TOT PCT													
		2.7	3.0	11.3	19.0	16.0	13.5	19.3	10.9	.0	4.4	100.0	3819

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.0	*	*	*	.0	.3	.5	
	4-10	*	*	.1	.1	.1	*	*	.1	.0		.4	
	11-21	*	.0	*	.1	*	*	.0	.2	.0		.1	
	22+	.0	.0	.0	.1	*	.0	.0	*	.0		.1	
	TOT %	.1	*	.1	.3	.1	.1	.1	.3	.0	.3	1.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.1	.2	
	4-10	*	*	*	*	.1	*	*	.1	.0		.3	
	11-21	*	.0	*	.2	.1	*	*	.1	.0		.4	
	22+	.0	.0	*	.2	*	.0	.0	*	.0		.3	
	TOT %	*	*	.1	.4	.2	*	.1	.2	.0	.1	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
	4-10	.1	*	.0	*	.1	*	*	.1	.0		.2	
	11-21	.1	.0	*	*	*	.1	.1	.1	.0		.5	
	22+	.0	.0	.0	.1	*	*	*	*	.0		.2	
	TOT %	.2	*	*	.1	.1	.1	.1	.2	.0	*	.9	
2<5	0-3	.0	*	*	.0	.0	.0	*	*	.0	.2	.2	
	4-10	*	*	.1	*	.0	*	.1	*	.0		.3	
	11-21	*	*	.1	.1	.1	.1	.1	.1	.0		.6	
	22+	.1	.0	*	*	.1	.2	.2	.4	.0		.9	
	TOT %	.1	.1	.3	.2	.2	.3	.4	.5	.0	.2	2.1	
5<10	0-3	.1	*	.1	.2	.1	.1	.2	.5	.0	1.7	2.9	
	4-10	.2	.3	.4	1.1	1.0	.8	1.3	1.1	.0		6.2	
	11-21	.4	.2	.7	1.8	1.1	1.0	1.3	1.3	.0		7.8	
	22+	.1	*	.2	.7	.4	.3	1.0	.9	.0		3.6	
	TOT %	.8	.5	1.3	3.8	2.7	2.2	3.8	3.8	.0	1.7	20.6	
10+	0-3	.1	.2	.2	.5	.7	.5	.5	.1	.0	2.0	4.9	
	4-10	.7	1.2	3.8	4.5	5.5	5.3	5.0	2.1	.0		28.3	
	11-21	.7	.8	4.1	5.7	4.9	3.6	6.3	2.8	.0		28.9	
	22+	.2	.1	1.6	2.7	1.4	1.3	3.0	1.6	.0		11.8	
	TOT %	1.8	2.3	9.6	13.4	12.5	10.7	14.8	6.6	.0	2.0	73.9	
TOT OBS													
TOT PCT													
		3.0	3.0	11.4	18.2	15.8	13.4	19.2	11.7	.0	4.3	100.0	4651

SEPTEMBER

PERIOD: (PRIMARY) 1881-1975
(OVER-ALL) 1854-1975AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.3	1.1	3.8	12.2	5.7	2.1	.9	.0	.9	27.5	72.5	632
06009	.4	.3	1.4	6.4	17.9	6.8	3.1	.8	.5	.5	38.1	61.9	769
12015	.8	.1	1.0	4.9	10.5	7.2	2.0	.4	.7	.9	28.5	71.5	769
18021	.3	.2	.8	5.8	9.7	3.6	1.3	1.0	.2	.0	22.8	77.2	619
TOT	14	6	31	147	356	165	60	21	10	17	827	1962	2789
PCT	.5	.2	1.1	5.3	12.8	5.9	2.2	.8	.4	.6	29.7	70.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.7	2.0	.5	1.3	22.6	70.9	1286
06009	.6	.6	1.0	2.3	18.3	76.9	1151
12015	.4	.7	.9	2.5	22.3	73.3	1332
18021	1.3	1.5	1.1	2.5	19.9	73.6	1048
TOT	61	60	42	103	1007	3544	4817
PCT	1.3	1.2	.9	2.1	20.9	73.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	2.0	7.0	22.4	70.5	597
06009	.4	2.1	9.8	29.5	60.8	757
12015	.8	2.1	8.7	20.8	70.5	750
18021	.3	1.5	9.0	15.9	75.2	592
TOT	14	53	234	607	1855	2696
PCT	.5	2.0	8.7	22.5	68.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	*	.0	.0	*	.0	.0	2	.1
70/74	.0	.1	.1	.2	.0	.1	.0	*	15	.5
65/69	.0	.0	.1	.4	.9	1.1	.6	.3	104	3.3
60/64	.0	.0	.3	1.1	4.8	11.0	13.3	5.7	1135	36.2
55/59	.0	*	.2	3.1	9.5	15.3	15.6	8.8	1643	52.5
50/54	.0	.0	.1	.5	1.8	1.9	1.7	1.1	224	7.2
45/49	.0	.0	.0	.0	*	*	.2	.1	9	.3
TOTAL	0	3	23	163	535	922	983	503	2132	100.0
PCT	.0	.1	.7	5.2	17.1	29.4	31.4	16.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	*	.0	.0	.0	.0	*	*	.0	.0
.0	*	.1	.1	*	.1	.1	.1	.0	.1
.2	.2	.6	.6	.5	.3	.6	.2	.0	.2
.8	1.3	5.4	7.0	5.5	4.0	7.4	3.2	.0	1.7
1.2	1.3	5.6	9.8	9.1	7.1	10.7	6.4	.0	1.3
.1	.2	.2	1.0	1.3	1.6	1.5	.6	.0	.8
.0	.0	.0	*	*	.1	.0	.0	.0	.1
2.2	3.0	12.0	18.5	16.4	13.1	20.2	10.5	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	65	63	58	53	50	45	58.0	2180
06009	77	66	64	59	53	50	47	58.6	1549
12015	76	71	67	61	55	51	46	60.8	2633
18021	77	66	64	59	54	51	50	58.8	1559
TOT	77	68	65	59	54	51	45	59.2	7921

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.6	15.0	27.9	32.9	20.6	80	845
06009	.0	5.8	15.3	32.0	30.5	16.4	78	816
12015	.0	10.2	21.3	30.9	27.2	10.5	75	880
18021	.0	4.3	15.7	27.3	35.5	17.1	79	737
TOT	0	199	555	970	1028	526	78	3278

PERIOD: (PRIMARY) 1881-1975
(OVER-ALL) 1854-1975

SEPTEMBER

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WU FOG
17/19	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	*	*	.1	.1	*	7	.0	.2
9/10	.0	.0	.0	*	*	.1	.1	.0	10	.0	.3
7/8	.0	.0	.0	.2	.2	.5	.1	.0	34	.0	1.0
6	.0	.0	.0	.2	.3	.7	.0	.0	36	.0	1.1
5	.0	.0	*	.3	.8	.6	*	.0	59	.0	1.8
4	.0	.0	.1	.7	2.1	.4	.0	.0	110	.1	3.2
3	.0	.0	.1	1.0	2.5	.2	*	.0	126	*	3.8
2	.0	.0	.2	3.3	4.3	.2	.0	.0	268	.2	7.9
1	.0	.0	.3	6.7	4.4	.3	.0	.0	386	.1	11.6
0	.0	.0	.8	11.4	6.6	.3	.0	.0	566	.4	16.6
-1	.0	.0	1.5	11.0	1.8	.1	.0	.0	475	.1	14.2
-2	.0	.0	2.9	8.2	1.4	.0	.0	.0	416	.4	12.1
-3	.0	*	2.9	4.3	.5	.0	.0	.0	257	.1	7.6
-4	.0	.1	3.3	2.8	.5	.0	.0	.0	220	.1	6.5
-5	.0	.2	2.3	1.7	.3	.0	.0	.0	151	*	4.5
-6	.0	.3	1.1	.7	.1	.0	.0	.0	71	*	2.1
-7/-8	.0	.5	1.2	.6	.1	*	.0	.0	81	*	2.4
-9/-10	.1	.4	.2	.1	.1	.0	.0	.0	26	.0	.8
-11/-13	.0	.3	.1	.0	.0	.0	.0	.0	14	.0	.4
-14/-16	*	*	*	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
-20/-22	.0	.0	*	.0	.0	.0	.0	.0	1	.0	*
TOTAL	3		564		795		12		3322	52	3270
PCT	.1	1.9	17.0	53.3	23.9	3.4	.4	.1	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								NE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.1	.1	.0	.0	.0	.0	.2		.0	.2	.0	.0	.0	.0	.2	
1-2	.1	.5	.0	.0	.0	.0	.6		.1	.9	.2	.0	.0	.0	1.2	
3-4	.0	.2	.6	.2	.0	.0	1.0		.0	.4	.5	*	.0	.0	.9	
5-6	.0	.1	.4	.1	.0	.0	.5		.0	.2	.4	*	.0	.0	.6	
7	.0	.1	.0	.0	.0	.0	.1		.0	.1	.1	.1	.0	.0	.3	
8-9	.0	*	.1	*	.0	.0	.2		.0	*	.0	*	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	*	.0	*		.0	.0	.0	*	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.0	1.0	.3	*	.0	2.6		.1	1.8	1.2	.2	.0	.0	3.2	

HGT	E								SE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.5	.1	.0	.0	.0	.7		.2	.7	.1	.0	.0	.0	1.0	
1-2	.2	2.4	.5	.0	.0	.0	3.1		.0	2.2	1.3	.0	.0	.0	3.5	
3-4	.0	1.3	2.0	.1	.0	.0	3.3		.0	1.9	2.8	.2	.0	.0	5.8	
5-6	.0	.5	1.5	.5	.0	.0	2.5		.0	.2	2.6	.9	.1	.0	3.8	
7	.0	.1	.9	.5	.0	.0	1.4		.0	.1	1.4	.7	.0	.0	2.2	
8-9	.0	.0	.2	.4	.0	.0	.5		.0	.0	.3	.8	.3	.0	1.4	
10-11	.0	*	.1	.3	.1	.0	.5		.0	*	.1	.6	*	.0	.7	
12	.0	.1	.1	*	.0	.0	.2		.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	*	.1	.2	*	.4		.0	.0	*	.1	.1	*	.1	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.8	5.3	1.8	.3	*	12.7		.2	5.2	8.5	3.4	.5	*	17.8	

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.7	.0	.0	.0	.0	.9	.2	.7	.1	.0	.0	.0	1.0	
1-2	.3	2.7	.9	.0	.0	.0	3.9	.1	2.4	.5	.0	.0	.0	2.9	
3-4	.1	2.6	2.1	.1	.0	.0	4.8	.0	2.2	1.7	.3	.0	.0	4.3	
5-6	.0	.7	2.6	.5	.1	.0	3.9	.1	.4	1.5	.4	.0	.0	2.3	
7	.0	.4	.8	.4	.1	.0	1.6	.0	.1	.6	.2	.0	.0	1.0	
8-9	.0	.1	.5	.3	.0	.0	.9	.0	.1	.4	.3	.1	.0	.8	
10-11	.0	.0	.1	.4	.0	.0	.5	.0	.1	.1	.2	.1	.0	.5	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.0	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	7.2	7.0	2.1	.2	.0	17.0	.4	6.0	4.9	1.6	.3	.0	13.2	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	.1	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3	
1-2	.2	4.1	1.1	.0	.0	.0	5.3	.0	1.2	.3	.0	.0	.0	1.5	
3-4	.1	1.9	3.2	.5	.0	.0	5.7	.0	.7	1.2	.2	.0	.0	2.2	
5-6	.0	.6	2.8	.9	.2	.0	4.5	.0	.1	1.1	.6	.0	.0	1.9	
7	.0	.1	1.2	.9	.2	.0	2.4	.0	.1	.6	.5	.0	.0	1.1	
8-9	.0	.2	.4	.7	.2	.0	1.4	.0	.0	.2	.7	.1	.0	1.0	
10-11	.0	.1	.3	.5	.2	.0	1.3	.0	.0	.0	.3	.1	.0	.4	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.2	.1	.0	.3	
13-16	.0	.0	.1	.3	.0	.0	.5	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	7.5	9.1	4.2	1.1	.1	22.5	.0	2.4	3.5	2.8	.4	.0	9.2	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	3.9	.3	.0	.0	.0	8.1	
1-2	1.6	16.5	4.5	.0	.0	.0	22.5	
3-4	.3	10.9	13.8	1.6	.0	.0	26.6	
5-6	.1	2.7	12.6	3.9	.4	.0	19.5	
7	.0	1.0	5.4	3.1	.3	.0	9.7	
8-9	.0	.3	2.0	3.1	.6	.0	6.1	
10-11	.0	.3	.7	2.2	.6	.0	3.8	
12	.0	.2	.1	1.0	.2	.0	1.4	
13-16	.0	.0	.2	.9	.6	.1	1.7	
17-19	.0	.1	.0	.1	.1	.1	.3	
20-22	.0	.0	.0	.0	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	35.7	39.6	16.0	2.8	.1	100.0	1868

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	2.6	5.2	4.6	2.8	1.5	.9	.4	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	459	5
6-7	.0	.6	2.9	5.9	5.3	4.0	3.0	1.8	1.8	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	617	8
8-9	.0	.1	.8	3.0	3.8	3.6	4.0	1.9	3.1	.9	.6	.0	.1	.0	.0	.0	.0	.0	.0	517	9
10-11	.0	.1	.3	1.0	2.0	2.2	2.3	1.4	2.4	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	300	10
12-13	.0	.0	.4	.8	.9	1.0	1.2	.7	1.6	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	172	10
>13	.0	.0	.0	.1	.1	.2	.7	.2	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	51	11
INDET	.9	.8	1.3	1.6	2.4	.8	1.1	.4	.4	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	230	6
TOTAL	34	99	256	400	407	314	308	160	251	67	33	9	8	0	0	0	0	0	0	2346	8
PCT	1.4	4.2	10.9	17.1	17.3	13.4	13.1	6.8	10.7	2.9	1.4	.4	.3	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1882-1975
(OVER-ALL) 1854-1975

TABLE 1

AREA 0019 CAPE TOWN
34.35 18.5E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WJ PCPN	FUG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	8.2	7.7	4.8	.0	.0	.0	.0	20.8	1.7	1.0	2.7	.0	.0	.0	73.9	
NE	2.0	1.4	.7	.0	.0	.0	.0	4.1	.0	1.7	2.4	.0	.3	.0	91.5	
E	.9	1.0	.7	.0	.0	.0	.0	2.5	.9	.7	3.0	.4	2.3	.0	90.2	
SE	1.6	1.0	1.0	.0	.0	.0	.0	3.5	1.3	.5	3.6	.2	2.3	.0	88.7	
S	1.3	.9	.8	.0	.0	.0	.0	2.9	2.7	.5	1.5	.2	.7	.0	91.3	
SW	1.5	2.2	1.9	.0	.0	.0	.0	5.6	3.3	.2	1.4	.4	.6	.0	88.6	
W	2.3	4.0	2.3	.0	.0	.0	.0	8.6	4.5	.4	1.9	.1	.2	.1	84.2	
NW	6.5	4.1	2.4	.0	.0	.0	.0	13.0	4.7	.9	2.2	.0	.8	.3	78.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.9	1.8	.0	.0	.0	.0	3.6	.0	3.6	9.8	.9	.9	.0	81.3	
TOT PCT	2.2	2.2	1.6	.0	.0	.0	.0	5.9	2.7	.6	2.5	.2	1.1	.1	87.0	
TOT OBS:	3953															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FUG WJ PCPN	FUG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.5	2.7	1.7	.0	.0	.0	.0	6.8	2.2	2.1	3.5	.2	.8	.1	84.4
06009	2.2	2.5	1.7	.0	.0	.0	.0	6.4	3.3	.0	2.4	.2	.9	.0	86.7
12015	2.3	1.9	1.4	.0	.0	.0	.0	5.6	2.0	.0	1.1	.1	1.8	.1	89.3
18021	1.5	1.3	1.5	.0	.0	.0	.0	4.4	3.2	.3	3.0	.5	.7	.0	87.9
TOT PCT	2.2	2.1	1.6	.0	.0	.0	.0	5.9	2.7	.6	2.5	.2	1.1	*	87.1
TOT OBS:	4068														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.2	1.1	1.2	.5	.7	.2		3.3	17.1		3.0	3.7	5.0	3.1	3.4	3.2	2.1	.7
NE	.2	.8	.8	.3	.1	*		2.2	13.7		2.0	3.0	3.5	2.7	2.1	1.4	1.4	.3
E	.5	2.9	4.7	2.9	.5	*		11.6	16.7		11.5	12.4	13.4	11.6	11.7	9.5	10.3	15.1
SE	.7	5.4	6.9	4.5	.8	.2		18.5	16.7		18.9	17.2	16.9	14.1	18.4	19.9	20.1	19.1
S	.9	7.4	6.9	2.4	.3	.1		18.0	13.4		18.4	14.8	17.4	24.3	16.8	18.1	20.8	18.8
SW	.9	6.6	5.8	2.0	.4	.1		15.7	13.5		15.6	16.0	13.9	12.5	15.5	17.7	17.0	12.8
W	.8	5.6	7.1	3.7	1.3	.2		18.7	16.8		18.3	18.2	18.3	21.2	20.4	18.3	17.7	19.7
NW	.6	2.6	3.3	2.0	.6	.2		9.3	16.8		8.5	10.3	8.5	9.6	9.9	10.5	8.8	12.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0		3.8	4.3	3.1	.9	1.8	1.3	1.7	1.3
TOT OBS	620	2677	3038	1510	347	82	8274		15.2		1517	888	1534	112	1820	754	1573	76
TOT PCT	7.5	32.4	36.7	18.2	4.2	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.7	1.2	.9	.3	.3		3.3	17.1	3.2	4.8	3.3	2.0	
NE	.6	.9	.5	.2	*		2.2	13.7	2.4	3.4	1.9	1.3	
E	1.7	4.3	4.0	1.4	.2		11.6	16.7	11.8	13.3	11.1	10.6	
SE	2.7	7.0	5.9	2.5	.3		18.5	16.7	18.3	16.7	18.8	20.1	
S	3.6	8.8	4.5	.9	.2		18.0	13.4	17.1	17.9	17.2	20.7	
SW	3.4	7.4	3.7	1.0	.2		15.7	13.5	15.7	13.8	16.2	16.8	
W	2.5	7.9	5.2	2.5	.5		18.7	16.8	18.3	18.5	19.8	17.8	
NW	1.5	3.6	2.6	1.2	.3		9.3	16.8	9.2	8.6	10.1	9.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.6						2.6	.0	4.0	3.0	1.7	1.6	
TOT OBS	1595	3414	2259	833	173	8274		15.2	2405	1646	2574	1649	
TOT PCT	19.3	41.3	27.3	10.1	2.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1882-1975
(OVER-ALL) 1894-1975

OCTOBER

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	4.0	5.5	31.6	37.0	17.0	4.1	.8	14.7	100.0	2405
06009	3.0	5.5	31.7	36.7	18.1	4.1	.9	15.0	100.0	1646
12015	1.7	4.7	31.6	36.5	19.8	4.6	1.1	15.7	100.0	2574
18021	1.6	3.7	35.7	36.7	17.9	3.7	1.2	15.1	100.0	1649
TOT	215	405	2677	3038	1510	347	.82	15.2		8274
PCT	2.0	4.9	32.4	36.7	18.2	4.2	1.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.2	.8	.7		5.1
NE	.8	.2	.4	.4		4.0
E	5.9	1.9	3.0	2.3		3.6
SE	9.0	3.1	4.5	2.1		3.2
S	8.1	4.2	6.0	2.7		3.8
SW	4.0	3.5	5.4	2.8		4.6
W	3.6	4.2	7.6	4.1		5.0
NW	1.1	.8	3.1	1.7		5.6
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.2	.3		3.9
TOT OBS	947	521	879	481	2828	4.2
TOT PCT	33.5	18.4	31.1	17.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
*	*	*	.2	.4	.4	.1	*	.0	.0	1.1	
*	.0	*	.1	.3	.1	*	.1	.0	.1	1.1	
.1	.0	.2	.6	1.7	.8	.4	.1	.1	.1	9.1	
*	.2	.8	2.1	.8	.4	.1	*	*	.1	14.1	
.1	.0	.3	1.1	2.6	1.8	.6	.1	.0	.1	14.3	
.1	.0	.3	1.0	2.8	1.5	.4	.2	*	.1	9.3	
.1	.1	.4	2.0	3.1	2.3	.6	.1	.1	.1	10.6	
*	*	.2	.7	1.5	.6	.4	*	*	*	3.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.9	
15	5	48	188	412	236	77	19	7	17	1804	2828
.5	.2	1.7	6.6	14.6	8.3	2.7	.7	.2	.6	63.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)				
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.1	1.4	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	3.3	4.0	4.2	4.2	4.2	4.2	4.2	4.2
= OR >2000	9.5	12.1	12.5	12.5	12.5	12.5	12.5	12.5
= OR >1000	20.3	26.0	27.0	27.0	27.1	27.1	27.1	27.1
= OR >600	24.4	32.4	33.6	33.8	33.8	33.8	33.8	33.8
= OR >300	25.1	33.7	35.3	35.5	35.5	35.5	35.5	35.5
= OR >150	25.2	33.9	35.5	35.6	35.7	35.7	35.7	35.7
= OR > 0	25.3	34.1	35.7	35.9	36.0	36.2	36.2	36.2
TOTAL	724	976	1024	1029	1033	1037	1037	1037

TOTAL NUMBER OF OBS: 2866

PCT FREQ NH <5/8: 63.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.0	14.6	12.3	10.7	7.4	6.2	8.4	9.2	12.8	3060

PERIOD: (PRIMARY) 1882-1975
(OVER-ALL) 1854-1975

OCTOBER

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	
	NO PCP	*	*	.1	.2	*	.1	.1	.1	.0	.2	.8	
	TOT %	.1	*	.1	.2	*	.1	.1	.1	.0	.2	.9	
1/2<1	PCP	.1	.0	.0	.0	*	.1	*	.1	.0	.0	.3	
	NO PCP	.0	*	*	.2	*	.1	.1	.1	.0	*	.5	
	TOT %	.1	*	*	.2	.1	.1	.1	.1	.0	*	.8	
1<2	PCP	*	*	.0	.0	.0	*	*	*	.0	.0	.1	
	NO PCP	.0	*	*	.1	.1	*	.1	.1	.0	*	.5	
	TOT %	*	*	*	.1	.1	*	.1	.1	.0	*	.6	
2<5	PCP	.1	.0	*	.2	.1	.1	.2	.1	.0	*	.9	
	NO PCP	*	*	.3	.4	.3	.3	.1	.2	.0	.1	1.7	
	TOT %	.1	*	.3	.6	.3	.4	.3	.3	.0	.1	2.6	
5<10	PCP	.3	*	.2	.3	.4	1.0	.7		.0	.1	3.3	
	NO PCP	.6	.4	2.6	4.4	3.2	2.9	3.8	2.5	.0	1.6	21.9	
	TOT %	.8	.4	2.8	4.7	3.6	3.4	4.8	3.2	.0	1.6	25.2	
10+	PCP	.1	*	.1	.1	*	.2	.3	.2	.0	*	1.1	
	NO PCP	1.4	1.3	8.2	12.6	15.3	10.9	13.2	5.0	.0	.8	68.8	
	TOT %	1.5	1.4	8.3	12.7	15.3	11.1	13.5	5.3	.0	.9	70.0	
TOT OBS													
TOT PCT													
3944													
2.6 1.9 11.5 18.6 19.5 15.1 18.9 9.1 .0 2.8 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	.1	.0	*	*	*	.0	.2	.4	
	4-10	*	*	.0	.1	*	*	*	*	.0		.2	
	11-21	*	.0	*	.0	.0	.0	*	*	.0		.1	
	22+	*	.0	.0	.0	.0	.0	*	*	.0		*	
	TOT %	.1	*	.1	.2	*	.1	.1	.1	.0	.2	.8	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	*	.0	*	.1	
	4-10	.0	.0	.0	.1	*	.1	.1	*	.0		.2	
	11-21	.0	.0	*	*	*	*	*	*	.0		.1	
	22+	.1	*	.0	.0	*	*	*	*	.0		.2	
	TOT %	.1	*	*	.2	*	.1	.1	.1	.0	*	.7	
1<2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.0	*	.1	*	*	*	.0		.2	
	11-21	*	*	*	.1	*	.0	.1	*	.0		.2	
	22+	.0	.0	*	*	*	.0	*	*	.0		.1	
	TOT %	*	*	*	.2	.1	*	.1	.1	.0	*	.6	
2<5	0-3	*	*	*	*	*	.0	*	.0	.0	.1	.2	
	4-10	*	.0	.1	.1	.3	.2	.1	*	.0		.7	
	11-21	.1	*	.1	.1	.1	.2	.1	.2	.0		1.0	
	22+	.1	.0	.2	.5	*	.1	.2	.2	.0		1.3	
	TOT %	.1	*	.4	.8	.5	.5	.4	.4	.0	.1	3.3	
5<10	0-3	*	.1	*	.3	.1	.1	.2	.6	.0	1.5	2.9	
	4-10	.3	.1	.5	1.1	1.2	1.3	1.2	.8	.0		6.6	
	11-21	.4	.1	1.1	1.8	1.5	1.1	1.7	.9	.0		8.5	
	22+	.1	.1	1.0	1.2	.4	.6	1.4	.6	.0		5.6	
	TOT %	.8	.4	2.6	4.4	3.3	3.1	4.5	2.9	.0	1.5	23.5	
10+	0-3	.2	.1	.3	.3	.7	.7	.5	.1	.0	1.1	3.9	
	4-10	.6	.7	2.2	4.6	7.3	5.2	4.6	2.0	.0		27.3	
	11-21	.5	.5	3.8	5.1	5.6	4.2	5.5	2.2	.0		27.3	
	22+	.3	.1	2.0	2.7	1.8	1.6	2.9	1.2	.0		12.6	
	TOT %	1.6	1.4	8.3	12.7	15.4	11.7	13.5	5.5	.0	1.1	71.2	
TOT OBS													
TOT PCT													
4846													
2.7 2.0 11.5 18.4 19.4 15.4 18.8 9.0 .0 2.9 100.0													

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PERIOD: (PRIMARY) 1882-1975
(OVER-ALL) 1854-1975AREA 0019 CAPE TOWN
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.1	.0	1.2	7.3	13.9	7.6	2.8	.4	.3	.4	34.3	65.7	668
06009	1.1	.2	1.6	7.2	18.1	9.5	3.2	.6	.4	.2	42.1	57.9	821
12015	.3	.3	1.4	6.4	10.0	7.9	1.9	.9	.0	.8	29.7	70.3	799
18021	.4	.1	2.4	5.0	14.1	7.1	2.5	.6	.3	.9	33.4	66.6	680
TOT PCT	15 .5	5 .2	48 1.6	193 6.5	418 14.1	240 8.1	77 2.6	19 .6	7 .2	17 .6	1039 35.0	1929 65.0	2968 100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.6	.7	.7	2.7	25.6	68.7	1344
06009	.7	.4	.4	3.4	22.6	72.4	1179
12015	.1	.4	.8	3.3	25.1	70.2	1351
18021	.5	1.0	.5	3.5	23.9	70.7	1088
TOT PCT	37 .7	32 .6	30 .6	158 3.2	1210 24.4	3495 70.4	4962 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	1.9	11.3	26.0	62.7	630
06009	1.1	3.0	12.3	31.2	56.5	805
12015	.3	1.9	9.8	21.3	68.9	779
18021	.5	3.1	10.3	25.2	64.6	652
TOT PCT	15 .5	71 2.5	313 10.9	745 26.0	1808 63.1	2866 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	*	.0	.0	.0	.0	1	*
75/79	.0	.1	*	.0	*	.0	*	.0	5	.2
70/74	.0	.0	.1	.2	.4	.3	.2	*	39	1.2
65/69	.0	*	.3	.7	1.5	2.9	2.9	1.5	330	9.9
60/64	.0	.0	.2	2.2	6.2	13.8	21.1	12.0	1847	55.4
55/59	.0	.0	.1	1.9	7.1	9.0	8.3	4.8	1039	31.2
50/54	.0	.0	.0	.0	.4	.5	.7	.5	69	2.1
45/49	.0	.0	.0	.0	.0	.0	.0	*	1	*
TOTAL	0	3	24	165	517	886	1108	628	3331	100.0
PCT	.0	.1	.7	5.0	15.5	26.6	33.3	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.0	*	.0	.0	*	*	.1	.0	.0
70/74	.1	*	.1	.2	.2	.1	.3	.1	.0	*
65/69	.2	.3	2.0	2.2	1.8	1.1	1.3	.8	.0	.3
60/64	1.4	1.2	8.1	10.8	10.3	7.7	10.6	4.5	.0	1.0
55/59	1.0	.4	1.3	5.1	7.0	5.5	6.7	3.2	.0	1.1
50/54	.0	.0	.1	.3	.4	.4	.3	.1	.0	.5
45/49	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
TOTAL	2.6	1.8	11.6	18.6	19.7	14.8	19.2	8.7	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	67	64	60	55	52	47	59.7	2381
06009	79	68	65	61	56	54	51	60.7	1644
12015	81	73	69	63	57	55	50	62.9	2538
18021	79	68	66	61	56	54	51	60.8	1638
TOT	81	71	67	61	56	54	47	61.1	8201

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.5	13.0	24.9	33.8	24.8	81	905
06009	.0	5.2	16.0	25.1	34.2	19.4	79	844
12015	.0	11.1	19.9	28.6	28.7	11.7	75	903
18021	.0	4.2	13.7	27.3	35.5	19.3	80	783
TOT	0	209	540	909	1132	645	79	3435

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PERIOD: (PRIMARY) 1982-1975
(OVER-ALL) 1994-1975AREA 0019 CAPE TOWN
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WU FOG
20/22	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	.1	*	.1	6	.0	.2
11/13	.0	.0	.0	.0	.1	.1	.2	.1	.0	.0	15	.0	.4
9/10	.0	.0	.0	.0	.1	.2	.3	.1	.0	.0	27	.1	.7
7/8	.0	.0	.0	.1	.3	.5	.4	*	.0	.0	43	.1	1.2
6	.0	.0	*	.1	.3	.8	.2	.0	.0	.0	46	.0	1.3
5	.0	.0	.1	.1	.9	1.5	.2	.0	.0	.0	93	.1	2.6
4	.0	.0	.1	.4	2.4	1.1	.1	.0	.0	.0	141	.1	3.9
3	.0	.0	.1	.7	2.6	1.6	*	.0	.0	.0	175	.2	4.8
2	.0	.0	.1	1.1	6.1	1.2	.1	.0	*	.0	299	.3	8.4
1	.0	.0	.1	2.6	9.2	1.2	*	.0	.0	.0	456	.4	12.8
0	.0	.0	.2	5.9	9.4	.5	.1	.0	.0	.0	552	.3	15.8
-1	.0	.0	.3	7.7	5.4	.2	.0	.0	.0	.0	466	.1	13.4
-2	.0	.0	.6	7.4	3.2	.1	.0	.0	.0	.0	388	.1	11.2
-3	.0	.0	.9	5.1	1.8	.1	*	.0	.0	.0	274	.1	7.9
-4	.0	.1	.9	3.1	.9	.1	.0	.0	.0	.0	174	.1	5.0
-5	.0	*	1.1	1.4	.4	*	.0	.0	.0	.0	102	.0	3.0
-6	*	*	.7	1.2	.1	.1	.0	.0	.0	.0	76	*	2.2
-7/-8	.0	.1	.6	.8	.2	*	.0	.0	.0	.0	60	.0	1.7
-9/-10	.0	.1	.4	.3	.1	.2	.0	.0	.0	.0	33	*	.9
-11/-13	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	10	.0	.3
-14/-16	.0	.1	.1	*	*	.0	.0	.0	.0	.0	7	.0	.2
TOTAL	1	13	219	1316	1500	326	56	10	3	2	3446	69	3377
PCT	*	.4	6.4	38.2	43.5	9.5	1.6	.3	.1	.1	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2	.1	.2	.0	.0	.0	.0	.2
1-2	.1	.4	.1	.0	.0	.0	.6	.1	.5	.1	.0	.0	.0	.6
3-4	.0	.1	.3	*	.0	.0	.4	.0	.3	.3	.0	.0	.0	.6
5-6	.0	.0	.2	.1	.0	.0	.2	.0	.1	.2	.0	.0	.0	.2
7	.0	.0	.1	.3	.0	.0	.4	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.0	*	.0	.0	*	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	*	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	.8	.5	.0	.0	2.0	.1	.9	.7	.2	.0	.0	1.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
1-2	.2	1.0	1.0	.0	.0	.0	2.2	.1	3.2	.9	.0	.0	.0	4.2
3-4	.1	.7	2.2	.2	.0	.0	3.1	.0	1.5	2.6	.4	.0	.0	4.5
5-6	.0	.2	1.8	.7	.0	.0	2.8	.0	.4	2.4	1.0	.1	.0	3.9
7	.0	.0	1.0	.8	.1	.0	1.9	.0	*	1.6	1.0	*	.0	2.7
8-9	.0	.0	.4	.8	.1	.0	1.3	.0	.0	.6	.7	.1	.0	1.4
10-11	.0	.0	.4	.3	.1	.0	.7	.0	.0	.1	.9	.2	.0	1.2
12	.0	.0	*	.3	.1	.0	.4	.0	*	.1	.2	.1	.0	.3
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.1	*	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	*	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	6.8	3.2	.5	.0	13.1	.1	5.5	8.4	4.4	.6	.1	19.1

PERIOD: (OVER-ALL) 1963-1975

OCTOBER

AREA 0019 CAPE TOWN
34.35 18.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.9	*	.0	.0	.0		1.4	.2	.6	.1	.0	.0	.0		.8
1-2	.3	5.5	.9	.0	.0	.0		6.7	.5	4.2	.5	.0	.0	.0		5.2
3-4	.1	2.3	2.5	.2	.0	.0		5.0	.1	1.6	1.8	.3	.0	.0		3.8
5-6	.0	.6	2.2	.6	*	.0		3.4	.0	.5	2.2	.7	*	.0		3.4
7	.1	.1	1.1	.7	.0	.0		1.9	.0	*	.8	.6	.1	.0		1.4
8-9	.0	.2	.4	.4	.0	.0		1.0	.0	.1	.3	.1	.0	.0		.5
10-11	.0	.0	.1	.3	.0	.0		.4	.0	.0	.0	.4	.1	.0		.5
12	.0	*	.0	.1	.1	.0		.3	.0	.0	*	*	*	.1		.1
13-16	.0	.0	.1	.2	*	.0		.4	.0	.0	.0	.1	*	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.1	.0	.0	.0	.0		.1
20-22	.0	.0	.0	.1	.0	.0		.1	.0	.0	.1	.1	.1	.0		.2
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	*	.0	.0	.0		*
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	9.7	7.2	2.8	.2	.0		20.5	.7	7.1	5.8	2.3	.3	.0		16.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.8	.0	.0	.0	.0		1.2	*	.2	.1	.0	.0	.0		.2	
1-2	.4	3.0	.9	.0	.0	.0		4.2	*	.9	.4	.0	.0	.0		1.3	
3-4	.1	1.4	2.3	.3	.0	.0		4.1	.0	.6	1.1	.2	.0	.0		1.8	
5-6	.0	.4	2.1	.9	.0	.0		3.4	.0	.1	.8	.3	.0	.0		1.2	
7	.0	.2	1.3	.8	.3	.0		2.5	.0	*	.4	.4	.1	.0		.9	
8-9	.0	.1	.2	.8	.2	.0		1.3	.0	.1	.1	.1	.1	.0		.2	
10-11	.0	.0	.2	.7	.4	.0		1.3	.0	.0	.2	.2	.1	.0		.4	
12	.0	.0	.1	.2	.0	.0		.3	.0	.0	.0	.1	.1	.0		.1	
13-16	.0	.0	.0	.3	.4	.0		.7	.0	.0	.0	.1	*	.0		.1	
17-19	.0	*	.0	.1	.2	.0		.3	.0	.0	.0	.1	.1	.0		.1	
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.1	.0		.1	
23-25	.0	.0	.0	*	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.8	5.8	7.0	4.3	1.5	.0		19.4	*	1.8	2.9	1.4	.4	.0		6.6	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	3.6	.2	.0	.0	.0	6.7	
1-2	2.0	18.7	4.6	.0	.0	.0	25.3	
3-4	.2	8.4	12.9	1.6	.0	.0	23.0	
5-6	.0	2.1	11.7	4.3	.2	.0	18.3	
7	.1	.4	6.3	4.5	.5	.0	11.8	
8-9	.0	.3	2.0	3.0	.4	.0	5.7	
10-11	.0	.0	.9	2.8	.9	.0	4.5	
12	.0	.1	.2	1.2	.3	.0	1.7	
13-16	.0	.1	.1	1.1	.5	.0	1.7	
17-19	.0	.1	.0	.2	.5	.0	.8	
20-22	.0	.0	.1	.1	.2	.1	.4	
23-25	.0	.0	.0	.1	.1	.0	.1	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.3	33.6	38.9	18.8	3.4	.1	100.0	1980

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	3.0	6.2	5.4	3.6	1.8	1.4	.4	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	584
6-7	.0	.6	3.4	5.4	6.2	3.7	3.0	1.7	1.0	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	654
8-9	.0	.0	1.0	2.8	3.6	4.4	3.4	1.3	3.1	.7	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	528
10-11	.0	.1	.4	1.0	1.9	1.8	2.1	1.5	1.7	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	295
12-13	.0	.0	.5	.5	.7	.9	1.0	.5	1.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	146
>13	.0	.0	.0	.4	.2	.4	.4	.2	.6	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	58
INLET	1.0	.6	1.0	.8	2.0	1.5	1.7	.3	.6	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	237
TOTAL	37	106	314	408	453	358	322	148	220	75	39	14	8	0	0	0	0	0	0	0	2502
PCT	1.5	4.2	12.5	16.3	18.1	14.3	12.9	5.9	8.8	3.0	1.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1872-1975
(OVER-ALL) 1855-1975

NOVEMBER

AREA 0019 CAPE TOWN
34.35 18.06

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA	
N	.0	1.4	1.4	.0	.0	.0	.0	2.6	1.1	.0	7.1	1.1	3.5	.0	84.5	
NE	1.3	2.6	.0	.0	.0	.0	.0	3.9	.3	1.3	5.9	.0	2.3	.0	86.3	
E	.8	.4	1.1	.0	.0	.0	.0	2.3	.6	.5	2.6	.0	2.8	.2	90.9	
SE	1.0	.1	.6	.0	.0	.0	.0	1.8	.1	.4	1.2	.0	2.0	.1	94.4	
S	.8	.9	.5	.0	.0	.0	.0	2.1	.9	.3	1.1	.1	1.0	.4	94.2	
SW	1.2	1.1	1.4	.0	.0	.0	.0	3.5	2.4	.4	1.7	.0	.2	.0	91.8	
W	2.0	2.8	1.5	.0	.0	.0	.0	6.3	3.4	.5	1.4	.0	1.3	.0	87.1	
NW	4.2	1.0	2.8	.0	.0	.0	.0	7.5	3.8	.0	3.6	.5	1.6	.0	83.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.9	.0	.0	.0	.0	.0	1.8	.0	1.8	8.0	.0	1.8	.0	86.6	
TOT PCT	1.3	1.0	1.0	.0	.0	.0	.0	3.2	1.4	.4	2.0	.1	1.5	.2	91.2	
TOT OBS:	3894															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DKZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	1.2	1.2	1.4	.0	.0	.0	.0	3.0	1.3	1.5	2.4	.1	.8	.2		90.0
06009	1.2	1.1	1.0	.0	.0	.0	.0	3.2	2.7	.1	2.2	.1	1.7	.0		90.1
12015	1.8	.9	.9	.0	.0	.0	.0	3.3	.3	.1	2.2	.1	1.9	.3		91.9
18021	1.2	1.0	.8	.0	.0	.0	.0	2.9	1.5	.1	1.1	.0	1.6	.2		92.5
TOT PCT TOT OBS:	1.3 4019	1.0	1.0	.0	.0	.0	.0	3.3	1.4	.4	2.0	.1	1.5	.2		91.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.2	.8	.6	.2	.1	*		1.9	12.0		1.5	2.7	2.5	.4	2.3	1.5	1.0	1.9	
NE	.1	.7	.8	.2	.1	.0		1.9	12.9		1.4	2.5	3.0	1.1	1.8	1.5	1.1	4.2	
E	.4	3.2	5.7	2.0	.5	.1		11.9	16.0		12.5	14.1	13.9	12.3	11.3	10.0	9.9	11.0	
SE	.5	5.7	9.2	5.4	.9	*		21.7	16.9		22.5	19.7	20.3	24.6	20.6	21.8	24.1	26.6	
S	.8	7.7	8.8	3.1	.5	.1		20.8	14.2		21.1	18.1	19.0	25.0	20.2	22.4	23.6	21.8	
SW	.8	7.2	7.5	1.9	.3	.1		17.8	13.1		18.2	16.8	14.9	12.3	17.9	19.5	20.2	15.9	
W	.5	5.2	6.1	2.6	.8	.2		15.4	15.9		13.8	14.7	15.4	17.8	17.2	16.4	14.6	15.3	
NW	.5	1.9	2.2	1.1	.4	.2		6.2	16.2		5.3	6.8	7.1	6.6	7.2	6.1	4.6	1.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5							2.5	.0		3.7	4.4	3.9	.0	1.6	.8	.9	1.3	
TOT OBS	566	2882	3623	1455	302	55	8883		14.8		1552	989	1590	114	2006	862	1693	77	
TOT PCT	6.4	32.4	40.8	16.4	3.4	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	.6	.9	.4	.1	*		1.9	12.0	2.0	2.4	2.1	1.1		
NE	.4	1.0	.4	.1	.0		1.9	12.9	1.8	2.9	1.7	1.2		
E	1.4	5.3	4.0	1.1	.2		11.9	16.0	13.1	13.6	10.9	10.0		
SE	2.5	8.6	7.7	2.6	.4		21.7	16.9	21.4	20.6	20.9	24.3		
S	3.8	9.4	6.3	1.2	.2		20.8	14.2	19.9	19.4	20.8	23.5		
SW	3.8	8.5	4.7	.7	.1		17.8	13.1	17.7	14.7	18.4	20.0		
W	2.3	6.9	4.2	1.5	.5		15.4	15.9	14.2	15.5	16.9	14.6		
NW	1.4	2.2	1.6	.7	.3		6.2	16.2	5.9	7.1	6.9	4.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.5						2.5	.0	4.0	3.6	1.4	.9		
TOT OBS	1633	3791	2604	702	153	8883		14.8	2541	1704	2868	1770		
TOT PCT	18.4	42.7	29.3	7.9	1.7		100.0		100.0	100.0	100.0	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1872-1975
(OVER-ALL) 1855-1975

AREA 0019 CAPE TOWN
34.35 18.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.0	4.5	32.6	38.4	15.9	3.5	.9	14.4	100.0	2541
06009	3.0	4.5	34.4	39.1	15.0	3.0	.3	14.0	100.0	1704
12015	1.4	3.4	31.7	43.0	16.8	3.1	.7	15.1	100.0	2868
18021	.9	3.3	31.5	42.0	17.8	4.0	.5	15.4	100.0	1770
TOT	218	340	2882	3673	1455	302	.5	14.8		8883
PCT	2.5	3.9	32.4	40.8	16.4	3.4	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.2	.3	.6	.3		5.1
NE	.7	.2	.5	.3		4.0
E	7.2	2.0	2.4	1.1		2.8
SE	12.0	3.7	5.2	1.7		2.9
S	10.0	4.3	6.5	2.6		3.5
SW	5.2	3.7	5.5	2.2		4.2
W	2.9	3.0	5.6	3.2		5.0
NW	.8	.8	1.9	1.7		5.6
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.5	.5		4.8
TOT OBS	1129	527	823	384	2863	3.8
TOT PCT	39.4	18.4	28.7	13.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	*	.0	*	.1	.3	.3	.1	.0	.0	.0	.7	
NE	.1	.0	.0	.2	.1	.1	.0	.0	*	*	1.3	
E	.1	.0	.1	.4	1.0	.7	.1	.1	.1	.1	10.0	
SE	*	*	.1	1.1	1.8	1.1	.1	.1	.2	.2	17.8	
S	.1	*	.3	.8	2.7	1.5	.6	.1	.1	.1	16.9	
SW	*	.0	.1	1.1	2.0	1.5	.5	.2	*	*	11.2	
W	.1	.0	.2	1.2	2.7	1.4	.6	.3	.1	.3	7.9	
NW	.1	.0	.1	.6	.7	.5	.4	*	*	.2	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	.0	.2	.5	.1	.0	*	.0	*	.9	
TOT OBS	15	3	30	161	334	204	67	22	18	27	1982	2863
TOT PCT	.5	.1	1.0	5.6	11.7	7.1	2.3	.8	.6	.9	69.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	1.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6
* OR >5000	1.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >3500	3.6	4.5	4.7	4.7	4.7	4.7	4.7	4.7
* OR >2000	9.1	11.2	11.7	11.7	11.7	11.7	11.7	11.7
* OR >1000	18.1	22.5	23.2	23.4	23.4	23.4	23.4	23.4
* OR >600	21.7	27.4	28.6	28.9	29.0	29.0	29.0	29.0
* OR >300	22.1	28.1	29.6	29.9	30.0	30.0	30.0	30.0
* OR >150	22.1	28.1	29.7	30.0	30.1	30.1	30.1	30.1
* OR >0	22.2	28.4	30.1	30.3	30.5	30.6	30.7	30.7
TOTAL	649	831	880	888	892	896	897	897

TOTAL NUMBER OF OBS: 2026

PCT FREQ NH <5/8: 69.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBS	TOTAL
21.0	17.9	12.1	10.0	8.4	6.1	7.2	7.4	9.7	.3	3065

PERIOD: (PRIMARY) 1872-1975
(OVER-ALL) 1855-1975

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	*	*	*	.0	.1	.0	.0	.1	.4	
	TOT %	.1	.1	*	*	*	.0	.1	.0	.0	.1	.4	
1/2<1	PCP	.0	.0	.1	*	.0	.1	*	*	.0	.0	.2	
	NO PCP	*	.0	.1	.1	.0	*	*	.1	.0	.1	.4	
	TOT %	*	.0	.1	.1	.0	.1	.1	.1	.0	.1	.6	
1<2	PCP	.0	.0	.0	.1	*	.1	.1	.1	.0	.0	.3	
	NO PCP	*	*	.1	*	.1	*	*	*	.0	.1	.4	
	TOT %	*	*	.1	.1	.1	.1	.1	.1	.0	.1	.7	
2<5	PCP	.0	*	*	*	.2	.1	.3	.1	.0	*	.7	
	NO PCP	*	.1	.2	.3	.2	.1	.3	.2	.0	.1	1.4	
	TOT %	*	.1	.2	.3	.4	.2	.5	.3	.0	.1	2.1	
5<10	PCP	*	*	.2	.2	.2	.2	.4	.2	.0	*	1.4	
	NO PCP	.8	.5	2.6	4.1	3.2	2.4	2.6	2.1	.0	1.4	19.6	
	TOT %	.8	.5	2.8	4.2	3.3	2.6	3.0	2.3	.0	1.4	21.0	
10+	PCP	*	*	*	.1	.1	.2	.1	*	.0	.0	.0	
	NO PCP	.8	1.3	8.8	17.0	18.5	13.5	10.4	3.2	.0	1.1	74.7	
	TOT %	.9	1.3	8.8	17.1	18.6	13.6	10.5	3.2	.0	1.1	75.2	
TOT OBS													3890
TOT PCT													
		1.9	2.0	12.0	21.9	22.5	16.6	14.3	6.1	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	*	.0	.0	.0	.1	.1	
	4-10	*	.1	.0	*	*	.0	*	*	.0	.0	.2	
	11-21	*	.0	*	*	*	.0	.1	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	TOT %	.1	.1	*	.1	*	.1	.1	*	.0	.1	.5	
1/2<1	0-3	.0	.0	*	*	.0	*	.0	*	.0	.1	.1	
	4-10	*	.0	*	*	.0	.0	*	.1	.0	.0	.2	
	11-21	.0	.0	.0	*	.0	.1	*	*	.0	.0	.1	
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	.1	.1	.0	.1	*	.1	.0	.1	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	.1	
	4-10	*	.0	*	*	.1	.1	*	*	.0	.0	.3	
	11-21	*	.0	*	*	*	.1	*	.1	.0	.0	.2	
	22+	.0	*	*	*	.0	.0	*	*	.0	.0	.1	
	TOT %	*	*	.1	.1	.1	.2	.1	.1	.0	.1	.7	
2<5	0-3	.0	.0	*	.0	*	.0	.0	*	.0	.1	.1	
	4-10	.0	*	.1	.1	.2	*	.2	.1	.0	.0	.6	
	11-21	*	*	.2	.2	.2	.1	.2	.1	.0	.0	1.0	
	22+	.0	*	.1	.3	.1	*	.1	.1	.0	.0	.6	
	TOT %	*	.1	.3	.6	.4	.2	.5	.3	.0	.1	2.5	
5<10	0-3	.1	.0	*	.3	.1	.1	.1	.6	.0	1.3	2.6	
	4-10	.3	.3	.8	1.1	1.3	1.2	1.0	.7	.0	.0	6.6	
	11-21	.2	.2	1.3	1.8	1.2	.9	.8	.6	.0	.0	7.0	
	22+	.1	*	.7	1.2	.7	.4	.8	.3	.0	.0	4.1	
	TOT %	.8	.5	2.8	4.3	3.3	2.5	2.7	2.1	.0	1.3	20.4	
10+	0-3	.1	.1	.3	.3	.6	.7	.3	.1	.0	1.3	3.7	
	4-10	.4	.5	2.6	4.8	7.5	6.3	4.0	1.3	.0	.0	27.5	
	11-21	.3	.5	4.4	7.6	8.1	5.7	4.4	1.3	.0	.0	32.3	
	22+	.1	.2	1.7	4.4	2.4	.9	1.7	.5	.0	.0	11.9	
	TOT %	.9	1.3	9.0	17.1	18.7	13.6	10.4	3.2	.0	1.3	75.4	
TOT OBS													4791
TOT PCT													
		1.9	2.0	12.3	22.3	22.5	16.6	13.8	5.9	.0	2.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.1	.0	.8	6.3	12.2	7.7	1.4	.6	.8	1.1	31.8	68.2	663
06009	.5	.2	.9	6.7	14.2	7.4	2.4	.9	1.1	.7	35.0	65.0	802
12015	.1	.1	1.3	3.2	8.2	6.1	2.0	.7	.5	1.1	23.3	76.7	840
18021	.4	.0	1.0	5.8	11.0	6.4	3.3	.7	.0	.8	29.4	70.6	720
TOT	15	3	30	165	343	207	69	22	18	28	900	2125	3025
PCT	.5	.1	1.0	5.5	11.3	6.8	2.3	.7	.6	.9	29.8	70.2	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.6	.6	1.8	22.0	74.5	1249
06009	.8	.4	.9	3.1	18.2	76.6	1176
12015	.5	.9	.6	2.4	22.9	72.7	1401
18021	.3	.1	.7	2.5	20.6	75.8	1091
TOT	25	25	35	121	1034	3677	4917
PCT	.5	.5	.7	2.5	21.0	74.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.1	2.2	9.8	23.8	66.4	640
06009	.5	1.7	10.3	26.3	63.4	779
12015	.1	1.8	6.5	18.0	75.5	812
18021	.4	1.4	8.9	22.2	68.9	695
TOT	15	52	258	657	2011	2926
PCT	.5	1.8	8.8	22.5	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.1	.0	.0	*	.0	.0	.0	4	.1
75/79	.0	.1	*	.1	.1	.1	*	.0	17	.5
70/74	.0	*	.2	.3	1.1	1.0	.5	.3	110	3.4
65/69	.0	.0	.2	1.4	4.1	7.1	8.1	5.3	840	26.1
60/64	.0	*	.2	2.9	9.6	15.9	17.4	11.4	1852	57.5
55/59	.0	.0	*	.5	2.5	3.7	9.0	2.5	393	12.2
50/54	.0	.0	*	.0	*	.1	*	*	7	.2
TOTAL	0	8	22	109	561	897	936	630	3223	100.0
PCT	.0	.2	.7	5.2	17.4	27.8	29.0	19.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.1	.0	.0	.0	.0	.0	*
75/79	*	.0	.1	.2	.1	.1	.0	*	.0	*
70/74	.1	.1	.6	.9	.4	.4	.5	.3	.0	.1
65/69	.3	.5	4.8	5.8	4.1	3.8	4.4	1.7	.0	.5
60/64	.9	.8	5.6	12.2	13.8	10.6	8.6	3.6	.0	1.3
55/59	.2	.1	.5	2.6	3.8	1.8	1.2	.8	.0	1.1
50/54	.0	.0	.0	*	.1	*	.0	.0	.0	.1
TOTAL	1.5	1.5	11.6	21.8	22.4	16.8	14.7	6.4	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	69	67	62	57	55	48	61.9	2482
06009	73	71	68	63	58	55	52	63.1	1711
12015	83	75	72	65	59	55	48	65.2	2812
18021	78	71	68	63	58	55	51	63.0	1740
TOT	83	73	69	63	58	55	48	63.4	8745

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.8	12.1	26.3	31.8	26.0	81	826
06009	.0	7.0	18.1	27.6	26.6	20.7	78	832
12015	.0	11.0	23.4	28.4	25.0	12.1	75	907
18021	.0	4.1	15.3	27.3	33.3	19.9	80	772
TOT	0	221	581	916	968	651	78	3337

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	% FOG	WD FOG
20/22	.0	.0	.0	.0	.0	*	*	.0	2	.0	.1
17/19	.0	.0	.0	.0	*	*	*	.0	3	.0	.1
14/16	.0	.0	.0	*	.1	.0	*	.1	7	.0	.2
11/13	.0	.0	.0	.1	.1	.1	.3	.1	25	.0	.7
9/10	.0	.0	.1	.1	.2	.2	.2	*	29	.0	.8
7/8	.0	.0	.1	.3	.4	.6	.1	.0	56	.0	1.6
6	.0	.0	.2	.2	.6	.4	*	.0	49	.0	1.4
5	.0	.0	.1	.8	1.4	.9	*	.0	116	.1	3.2
4	.0	*	.4	1.2	1.6	.4	.1	.0	130	.1	3.6
3	.0	.1	.6	1.8	3.3	.5	.0	.0	219	.1	6.1
2	.0	.1	.9	3.7	4.0	.4	*	.0	322	.3	8.9
1	.0	.1	1.1	6.0	4.4	.3	.0	.0	417	.3	11.5
0	.0	*	1.4	10.8	3.8	.1	*	.0	565	.5	15.6
-1	.0	.0	2.1	8.8	2.5	.1	.0	.0	470	.2	13.2
-2	.0	.1	2.0	8.6	1.2	.0	.0	.0	419	.2	11.7
-3	.0	.2	2.5	3.7	.4	*	.0	.0	239	.0	6.8
-4	.0	.2	2.7	2.3	.3	.0	.0	.0	193	.0	5.5
-5	.0	.0	1.9	1.2	.2	*	.0	.0	115	*	3.2
-6	.0	.2	1.0	.3	*	.0	.0	.0	55	*	1.5
-7/-8	.0	.2	.9	.3	.1	.0	.0	.0	51	.0	1.5
-9/-10	*	.1	.1	.1	*	.0	.0	.0	13	*	.3
-11/-13	.0	.1	.1	.1	*	.0	.0	.0	11	.0	.3
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	43	638	1777	865	147	29	5	3508	1.9	98.1
PCT	.1	1.2	18.2	50.7	24.7	4.2	.8	.2	100.0		

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	*	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*
1-2	.1	.4	.2	.0	.0	.0	.7	.0	.5	.3	.0	.0	.0	.9
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.2	.2	*	.0	.0	.4
5-6	.0	*	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	*	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.7	.5	.1	.0	.0	1.5	*	.7	.9	.1	.0	.0	1.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.0	.0	.0	.0	.4	.3	.4	.0	.0	.0	.0	.7
1-2	.1	2.0	.8	.0	.0	.0	2.9	.2	2.6	1.4	.0	.0	.0	4.2
3-4	.0	1.4	2.5	.3	.0	.0	4.2	.0	1.9	3.2	.6	.0	.0	5.7
5-6	.0	.3	1.6	.4	*	.0	2.3	*	.7	3.5	1.6	.0	.0	5.8
7	.0	*	1.3	.3	*	.0	1.7	.0	.2	1.4	.9	.1	.0	2.7
8-9	.0	.0	.7	.6	.1	.0	1.4	.0	.0	.4	1.0	*	.0	1.5
10-11	.0	.0	.1	.2	*	.0	.4	.0	.0	.2	.9	.1	.0	1.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	*	.3	.0	.0	.4
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	*	.3	.0	.0	.3
17-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.1	7.0	2.0	.3	.0	13.6	.5	5.7	10.3	5.6	.4	.0	22.5

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.6	.0	.0	.0	.0		1.0	.2	.7	.8	.0	.0	.0		1.0
1-2	.3	4.7	1.1	.0	.0	.0		4.0	.2	3.6	.8	.0	.0	.0		4.5
3-4	.0	2.3	3.4	.1	.0	.0		5.8	.0	1.7	3.2	.1	.0	.0		4.9
5-6	*	.5	3.2	.7	*	.0		4.4	.1	.6	2.3	.4	*	.0		3.4
7	.0	.2	1.5	.7	*	.0		2.4	*	.1	1.1	.4	.1	.0		1.7
8-9	.0	*	.5	.6	.0	.0		1.1	.0	.0	.5	.2	.0	.0		.7
10-11	.0	.0	.2	.8	.1	.0		1.1	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.1	.2	.0	.0		.2
13-16	.0	.0	.1	.3	.0	.0		.4	.0	.0	.0	.1	*	.0		.2
17-19	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.2	.0	.0		.2
20-22	.0	.0	.0	.0	.0	.0		*	.0	.0	.0	.0	*	.0		*
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	8.4	9.9	3.3	.3	.0		22.6	.6	6.6	7.9	1.7	.1	.0		17.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.5	.1	.0	.0	.0		.7	.1	.1	.0	.0	.0	.0		.1	
1-2	.1	2.1	1.0	.0	.0	.0		3.2	.1	.9	.1	.0	.0	.0		1.2	
3-4	.0	1.7	2.3	.2	.0	.0		4.2	.0	.4	.9	.1	.0	.0		1.4	
5-6	*	.2	1.8	.4	.0	.0		2.5	.0	*	.6	.1	.0	.0		.8	
7	.0	.0	.9	1.0	*	.0		1.9	.0	.0	.4	.2	.0	.0		.5	
8-9	.0	*	.2	.4	*	.0		.7	.0	.0	.1	.2	*	.0		.3	
10-11	.0	.0	.2	.3	.2	.0		.7	.0	.0	*	.2	*	.0		.2	
12	.0	.0	*	.2	*	.0		.3	.0	.0	.0	*	.0	.0		*	
13-16	.0	.0	.0	.2	.1	.0		.3	.0	.0	.0	.1	.0	.0		.1	
17-19	.0	.0	.0	*	*	.0		.1	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	*	.0		*	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	4.6	6.5	2.8	.5	.0		14.6	.2	1.4	2.1	1.0	.1	.0		4.8	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	2.6	.1	.0	.0	.0	6.5	
1-2	1.4	16.8	5.6	.0	.0	.0	23.8	
3-4	.0	9.6	15.7	1.4	.0	.0	26.7	
5-6	.2	2.3	13.2	3.6	.1	.0	19.4	
7	*	.5	6.4	3.6	.3	.0	10.9	
8-9	.0	.1	2.5	2.9	.3	.0	5.8	
10-11	.0	.0	.7	2.4	.5	.0	3.6	
12	.0	.0	.1	1.0	*	.0	1.2	
13-16	.0	.0	.1	1.1	.1	.0	1.4	
17-19	.0	.1	.0	.3	.1	.0	.5	
20-22	.0	.0	.0	*	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.4	32.1	44.6	16.3	1.6	.0	100.0	2065

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	3.2	6.1	5.0	3.9	2.3	1.5	.5	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	598
6-7	.1	.6	2.7	6.1	6.8	4.5	3.7	1.1	1.9	.5	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	712
8-9	.0	.2	.9	2.7	5.4	3.8	3.5	1.8	2.4	1.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	557
10-11	.0	.3	.6	.8	1.7	1.9	1.9	.8	2.1	.4	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	272
12-13	.0	.0	.6	.1	.6	.5	.8	.6	.8	.1	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	110
>13	.0	.0	.0	.2	.4	.2	.2	.4	.3	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	58
INDET	.5	.8	1.4	1.6	1.3	.9	.6	.4	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	208
TOTAL	24	128	304	417	507	353	307	137	228	63	31	10	6	0	0	0	0	0	0	0	2515
PCT	1.0	5.1	12.1	16.6	20.2	14.0	12.2	5.4	9.1	2.5	1.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1875-1975
(OVER-ALL) 1854-1975

DECEMBER

AREA 0019 CAPE TOWN
34.2S 18.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	7.0	1.2	9.0	.0	.0	.0	.0	17.2	.0	1.2	3.3	1.2	4.1	.0	73.0
NE	.0	.0	2.0	.0	.0	.0	.0	2.0	1.6	.0	9.6	.0	1.6	.0	85.1
E	.0	.5	.0	.0	.0	.0	.0	.5	.6	.6	.7	.0	.7	.3	96.5
SE	.0	.7	.5	.0	.0	.0	.0	1.2	.2	.2	1.1	.1	3.2	.2	93.7
S	.4	.5	.9	.0	.0	.0	.0	1.3	.3	.5	.8	.0	1.7	.0	95.3
SW	.9	1.1	.8	.0	.0	.0	.0	2.9	1.7	.7	1.0	.5	1.1	.0	92.2
W	1.3	1.4	.8	.0	.0	.0	.0	3.6	2.2	.2	1.0	.2	1.6	.0	91.4
NW	4.4	2.8	2.7	.0	.0	.0	.0	9.9	1.0	.1	1.5	.1	1.1	.4	86.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	.7	.0	.0	.0	.0	.0	4.3	.0	1.4	8.6	.0	5.0	.0	80.6
TOT PCT	1.0	1.0	.9	.0	.0	.0	.0	2.8	.9	.4	1.4	.2	1.9	.1	92.3
TOT OBS:	3965														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WU PCPN	FGG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	2.0	1.2	1.1	.0	.0	.0	.0	4.3	.8	1.7	2.2	.1	1.6	.1	89.3
06009	1.0	1.0	1.5	.0	.0	.0	.0	3.5	1.2	.0	2.0	.4	1.7	.2	91.0
12015	.3	.8	.3	.0	.0	.0	.0	1.4	.3	.0	1.0	.1	2.8	.0	94.4
18021	.7	1.0	.4	.0	.0	.0	.0	2.2	1.1	.4	.8	.1	2.3	.1	92.9
TOT PCT	1.0	1.0	.8	.0	.0	.0	.0	2.8	.8	.5	1.5	.2	2.1	.1	91.9
TOT OBS:	4196														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.1	.6	.4	.2	*	*		1.2	12.6		.9	1.4	2.0	1.7	1.2	1.0	1.0	1.3
NE	.2	.8	.5	.2	*	.0		1.7	11.1		1.3	1.7	2.8	2.1	1.9	1.0	1.1	1.3
E	.4	2.5	4.2	1.7	.3	*		9.1	15.7		9.4	10.9	10.7	9.9	8.8	7.7	7.4	11.5
SE	.8	6.2	8.6	4.7	.0	*		21.2	16.2		22.1	22.6	20.1	26.9	18.7	25.1	21.5	23.7
S	1.1	8.0	10.0	3.4	.4	*		22.9	14.0		24.5	18.9	20.8	21.2	23.7	20.5	25.7	30.6
SW	1.1	7.9	7.6	2.0	.4	.1		19.0	13.0		18.3	19.1	17.3	17.7	18.0	21.1	21.5	13.8
W	.6	5.1	6.2	2.9	.9	.2		15.8	16.2		14.2	12.9	15.8	14.6	18.8	15.4	15.8	14.5
NW	.7	2.1	1.1	1.0	.4	.2		6.4	15.3		5.6	6.9	6.9	5.9	7.6	7.4	4.7	3.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0		3.7	5.8	3.7	.0	1.4	.8	1.5	.0
TOT OBS	664	2930	3507	1414	296	47	8858		14.4		1584	951	1548	106	2013	853	1727	76
TOT PCT	7.5	33.1	39.6	16.0	3.3	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.4	.5	.3	.1	*		1.2	12.6	1.1	2.0	1.1	1.0
NE	.6	.7	.4	*	*		1.7	11.1	1.4	2.7	1.6	1.1
E	1.2	3.8	3.1	.8	.1		9.1	15.7	9.9	10.7	8.5	7.6
SE	2.9	8.9	6.7	2.5	.3		21.2	16.2	22.2	20.5	20.6	21.5
S	3.6	11.5	6.4	1.3	.1		22.9	14.0	22.4	20.9	22.7	25.9
SW	3.9	9.6	4.4	.8	.2		19.0	13.0	18.6	17.3	18.9	21.2
W	2.4	6.9	4.2	1.8	.5		15.8	16.2	13.7	15.7	17.8	15.7
NW	1.7	2.2	1.5	.7	.3		6.4	15.3	6.1	6.8	7.5	4.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	4.5	3.4	1.3	1.4
TOT OBS	1708	3912	2392	711	135	8858		14.4	2535	1654	2866	1803
TOT PCT	19.3	44.2	27.0	8.0	1.5		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1875-1975
(OVER-ALL) 1854-1975

AREA 0019 CAPE TOWN
34.25 18.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.5	6.2	32.2	38.9	14.2	3.5	.5	13.9	100.0	2535
06009	3.4	5.3	35.4	37.4	15.8	2.3	.4	13.7	100.0	1654
12015	1.3	4.7	32.0	40.4	17.0	3.9	.7	15.0	100.0	2866
18021	1.4	2.8	33.9	41.2	17.0	3.2	.4	14.8	100.0	1803
TOT	293	431	2930	3507	1414	296	.47	14.4		8858
PCT	2.9	4.9	33.1	39.6	16.0	3.3	.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	.2	.2	.4	.4		5.5
NE	.8	.3	.2	.4		3.7
E	5.2	1.5	1.5	.8		2.8
SE	10.9	3.8	3.9	.9		2.7
S	13.8	5.0	6.5	1.9		3.1
SW	5.8	4.1	6.1	1.9		4.0
W	4.5	3.6	6.4	2.7		4.6
NW	.8	.9	2.1	1.1		5.3
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.2	.1		2.1
TOT OBS	1218	560	774	293	2845	3.5
TOT PCT	42.8	19.7	27.2	10.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
*	.0	.1	.2	.2	*	*	.0	*	*	.6	
.1	.0	.0	.1	.1	.1	.0	*	.0	*	1.2	
.1	*	*	.4	.5	.3	.1	.1	*	.0	7.5	
.2	.0	.2	.6	1.4	.5	.3	.1	*	*	16.1	
.1	*	.2	1.1	2.4	1.6	.4	.1	.0	.2	21.2	
*	*	.3	.7	2.3	1.4	.4	.1	*	.1	12.6	
*	.0	.4	1.3	2.6	1.6	.5	.1	*	.0	10.6	
.0	.0	.2	.5	1.1	.6	.2	.0	*	.0	2.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	*	.1	*	.0	.0	.0	1.1	
.6	.3	.8	1.47	3.03	1.75	.53	.16	.4	10	2080	2845
.6	.1	1.3	5.2	10.7	6.2	1.9	.6	.1	.4	73.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.4	.4	.4	.4	.4	.5	.5	.5
>5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3500	2.6	2.9	3.0	3.0	3.0	3.0	3.0	3.0
>2000	7.6	8.9	9.0	9.0	9.0	9.0	9.1	9.1
>1000	16.2	19.1	19.5	19.5	19.5	19.6	19.6	19.7
>600	19.4	24.0	24.6	24.7	24.7	24.8	24.9	24.9
>300	20.1	25.1	25.8	26.0	26.0	26.1	26.2	26.2
>150	20.1	25.2	25.9	26.1	26.1	26.2	26.3	26.3
>0	20.3	25.5	26.3	26.4	26.5	26.8	26.9	26.9
TOTAL	589	749	762	766	769	776	779	780

TOTAL NUMBER OF OBS: 2900

PCT FREQ NH <5/8: 73.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
20.3	19.9	14.1	10.1	8.6	5.2	6.7	6.8	7.9	.4	3034

DECEMBER

PERIOD: (PRIMARY) 1875-1975
(OVER-ALL) 1854-1975AREA 0019 CAPE TOWN
34.25 18.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	* .1	* *	* *	.1	.1	.1	* *	.0	.0	.1	.4	
	TOT %	* .1	* *	* *	.1	.1	.1	.1	.0	.0	.1	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	* *	* *	.1	.0	* *	.2	
	NO PCP	* .1	.0	.0	.0	.0	.1	.0	.1	.0	.2	.4	
	TOT %	* .1	.0	.0	.0	.0	.1	* *	.2	.0	.2	.5	
1<2	PCP	* *	.0	.0	* *	* *	.1	* *	.0	.0	.2	.6	
	NO PCP	.0	* *	.0	.2	.1	* *	.1	.1	.0	.2	.6	
	TOT %	* .1	.0	.2	.1	* *	.1	.1	.0	.2	.2	.8	
2<5	PCP	.1	.0	.0	.0	* *	* *	.1	.1	.0	.0	.3	
	NO PCP	.1	.0	.1	.2	.2	.1	.1	.1	.0	.1	.8	
	TOT %	.1	.0	.1	.2	.2	.1	.2	.1	.0	.1	1.1	
5<10	PCP	.1	.0	.0	.2	.2	.4	.2	.3	.0	.1	1.6	
	NO PCP	.3	.3	1.1	6.1	4.0	2.5	2.5	2.4	.0	1.9	21.0	
	TOT %	.4	.3	1.1	6.3	4.2	2.9	2.7	2.7	.0	2.1	22.6	
10+	PCP	.1	* *	* *	.1	.1	* *	.2	.1	.0	.0	.6	
	NO PCP	.9	1.1	6.6	14.9	20.2	13.6	12.2	3.6	.0	1.0	74.1	
	TOT %	.9	1.1	6.6	15.0	20.3	13.6	12.4	3.7	.0	1.0	74.6	
TOT OBS		3964											
TOT PCT		1.5	1.6	7.8	21.6	24.8	16.7	15.5	6.9	.0	3.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	.0	.0	.0	*	*	.0	*	.1	
	4-10	*	*	.0	*	.1	.1	*	*	.0	*	.2	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0	*	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	
	TOT %	* .1	.1	*	.1	.1	.1	.1	.1	.0	*	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.2	.2	.2	
	4-10	* .0	.0	*	*	* .1	.1	.1	.0	.0	.2	.2	
	11-21	.0	*	.0	*	.0	*	.0	.0	.0	.1	.1	
	22+	.0	*	.0	.0	.0	*	.0	.0	.0	.1	.1	
	TOT %	* *	.0	*	*	.1	*	.1	.0	.2	.2	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.1	.2	
	4-10	.0	*	.0	.1	*	*	.1	*	.0	.3	.3	
	11-21	.0	*	.0	*	*	*	.0	.0	.0	.1	.1	
	22+	* .0	.0	*	*	.0	.1	.1	.0	.0	.2	.2	
	TOT %	* .1	.0	.2	.1	*	.1	.1	.1	.0	.1	.7	
2<5	0-3	* .0	.0	.0	.0	*	.0	.0	*	.0	.1	.1	
	4-10	* .0	.1	.1	.1	.1	.1	.1	.1	.0	.6	.6	
	11-21	* .0	.1	.1	.1	.1	.1	.1	*	.0	.6	.6	
	22+	* .0	.1	.1	.1	.1	*	*	*	.0	.3	.3	
	TOT %	.1	.0	.2	.4	.4	.3	.2	.1	.0	.1	1.7	
5<10	0-3	.1	*	*	.3	.2	.2	.2	.8	.0	1.7	3.3	
	4-10	.2	.1	.2	1.8	1.3	1.3	.7	.9	.0	6.0	6.0	
	11-21	.1	*	.7	1.9	1.7	1.2	.9	.4	.0	6.9	6.9	
	22+	.1	*	.2	1.6	.8	.2	.7	.2	.0	3.8	3.8	
	TOT %	.4	.2	1.2	5.6	4.0	2.9	2.4	2.3	.0	1.7	20.7	
10+	0-3	.1	.1	.2	.4	.7	.6	.2	.1	.0	1.0	3.3	
	4-10	.3	.5	2.3	5.2	7.6	6.2	4.0	1.3	.0	27.5	27.5	
	11-21	.3	.4	3.2	6.5	8.7	5.8	5.4	1.6	.0	31.9	31.9	
	22+	.1	.2	1.6	3.9	3.1	1.2	2.4	.6	.0	13.0	13.0	
	TOT %	.8	1.1	7.3	16.0	20.1	13.9	12.0	3.6	.0	1.0	75.8	
TOT OBS		4935											
TOT PCT		1.4	1.5	8.7	22.2	24.7	17.2	14.8	6.4	.0	3.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1499	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	1.4	.2	1.8	4.9	10.3	7.0	2.6	.6	.2	.5	29.3	70.7	659
06609	.7	.0	1.8	6.0	13.8	7.3	2.5	.9	.1	.3	33.3	66.7	769
12615	.0	.1	.7	4.5	7.7	3.4	1.1	.2	.0	.6	18.3	81.7	831
18621	.4	.1	.8	5.0	9.2	6.6	1.6	.4	.3	.0	24.5	75.5	738
TOT PCT	17 .6	3 .1	38 1.3	152 5.1	306 10.2	179 6.0	57 1.9	16 .5	4 .1	10 .3	782 26.1	2215 73.9	2997 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.4	1.1	.6	1.5	25.3	71.0	1388
06609	1.0	.8	1.1	2.2	19.6	75.2	1162
12615	.2	.3	1.0	1.4	27.7	74.4	1471
18621	.4	.2	.8	1.7	20.8	76.1	1148
TOT PCT	26 .5	31 .6	46 .9	86 1.7	1152 22.3	3828 74.1	5169 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL OBS
00603	1.4	3.7	9.1	21.9	69.0	629
06609	.8	2.9	10.1	24.8	65.1	746
12615	.0	1.2	6.3	12.9	80.8	806
18621	.4	1.5	7.5	17.7	74.8	719
TOT PCT	18 .6	66 2.3	237 8.2	554 19.1	2109 72.7	2900 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	*	.0	.0	.0	.0	1	*
80/84	.1	*	*	.1	.0	.0	.0	.0	8	.2
75/79	.0	.1	.4	.6	.4	.5	.2	.1	77	2.3
70/74	.0	*	.4	1.1	2.8	3.7	3.0	1.7	434	12.7
65/69	.0	.1	.3	2.1	7.3	14.6	16.5	7.6	1658	48.5
60/64	.0	.0	.2	1.8	6.1	8.0	9.8	7.0	1126	32.9
55/59	.0	.0	.0	.2	.5	1.0	1.1	.5	113	3.3
50/54	.0	.0	.0	.0	*	*	*	.0	3	.1
TOTAL PCT	3 .1	8 .2	46 1.3	202 5.9	586 17.1	953 27.9	1045 30.6	577 16.9	3420	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	.0	.0	.0	.0	.0
.0	.0	.0	.2	*	.0	.0	.0	.0	*
*	.1	.3	1.0	.3	.2	*	.2	.0	.1
.1	.3	1.6	4.4	3.0	1.0	1.2	.8	.0	.4
.7	.8	4.8	10.9	10.7	7.6	8.1	3.6	.0	1.3
.7	.4	.9	4.5	9.1	7.3	6.0	2.5	.0	1.5
*	.1	.1	.3	.8	.9	.3	.2	.0	.5
.0	.0	.0	.0	*	*	.0	.0	.0	*
1.5	1.6	7.7	21.3	24.0	17.0	15.6	7.4	.0	4.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	80	72	69	64	59	56	51	64.3	2539
06609	84	74	71	66	60	57	51	65.6	1669
12615	85	78	74	68	62	59	50	67.9	2869
18621	81	74	71	66	60	57	50	65.7	1807
TOT	85	76	72	66	60	57	50	66.0	8884

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	4.7	12.2	26.3	33.1	23.7	80	958
06609	.1	6.4	18.1	25.4	33.0	17.0	78	842
12615	.3	14.6	23.1	30.1	22.8	9.0	73	998
18621	.0	5.5	16.7	27.9	33.7	16.2	78	834
TOT	4	291	639	999	1104	595	77	3632

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)													
AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WU FOG
17/19	.0	.0	.0	.0	.0	.1	.0	*	.0	*	4	.0	.1
14/16	.0	.0	.0	.0	*	.1	*	*	*	.0	9	*	.2
11/13	.0	.0	.0	.3	.2	.2	.2	*	*	.0	30	.0	.9
9/10	.0	.0	.1	.1	.3	.1	.2	.0	.0	.0	33	.0	1.0
7/8	.0	.0	*	.5	.5	.4	.5	.1	.0	.0	68	.0	2.0
6	.0	.0	.1	.5	.5	.7	.3	.0	.0	.0	70	*	2.0
5	.0	.0	.1	.6	.8	1.0	.5	*	.0	.0	102	*	3.0
4	.0	.0	.2	1.1	1.8	1.3	.3	.0	.0	.0	157	.1	4.5
3	.0	.0	.1	.9	2.2	1.5	.4	.0	.0	.0	172	.1	5.0
2	.0	*	.4	1.8	3.6	2.5	.2	.0	.0	.0	292	.1	8.5
1	.0	.0	.2	2.5	7.1	3.1	.3	*	.0	.0	452	.2	13.0
0	.0	*	.3	4.4	8.9	2.7	.1	.0	.0	.0	564	.2	16.3
-1	.0	.0	.3	4.8	7.0	1.1	.1	*	.0	.0	454	.2	13.1
-2	.0	.0	.3	5.1	5.1	.4	*	.0	.0	.0	376	.1	10.9
-3	.0	.0	.6	3.1	2.4	.3	.0	.0	.0	.0	220	.1	6.3
-4	.0	.0	.7	2.9	1.3	.1	.0	.0	.0	.0	170	.1	4.9
-5	.0	*	.5	1.8	.5	.1	.0	.0	.0	.0	103	.0	3.0
-6	.0	.1	.4	.7	.2	.0	.0	.0	.0	.0	44	.0	1.3
-7/-8	*	.1	.7	.6	.3	.1	.0	.0	.0	.0	58	*	1.7
-9/-10	*	.2	.1	.3	.2	.0	.0	.0	.0	.0	31	.0	.9
-11/-13	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	7	.0	.2
-14/-16	*	*	.0	.0	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	3	20	180	1092	1464	540	103	14	1	1	3419	40	3379
PCT	.1	.6	5.3	31.9	42.8	15.8	3.0	.4	.1	*	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	.0	.0	.0	.0	.3	.3	*	*	.0	.0	.0	.0	*	*
1-2	.0	.1	.0	.0	.0	.0	.1	.1	.1	.5	.2	.0	.0	.0	.8	.8
3-4	.0	.2	.3	*	.0	.0	.6	.0	.0	.1	.3	.0	.0	.0	.4	.4
5-6	.0	.1	*	.1	.0	.0	.2	.0	.0	.0	.1	.1	.0	.0	.2	.2
7	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	.0	.0	*	*
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.1	.1	.0	.0	.1	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.6	.4	.4	.0	.0	1.5	.1	.7	.6	.2	.2	.0	.0	1.6	1.6

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.2	.0	.0	.0	.0	.6	.6	.3	.6	.1	.0	.0	.0	.9	.9
1-2	.0	1.5	.6	.0	.0	.0	2.1	.1	.1	3.2	.9	.0	.0	.0	4.1	4.1
3-4	.1	.8	1.6	.1	.0	.0	2.5	.1	.1	2.4	2.7	.5	.0	.0	5.6	5.6
5-6	.0	.1	1.2	.2	*	.0	1.6	.0	.0	.4	2.6	.7	.1	.0	3.9	3.9
7	.0	.0	.6	.3	.0	.0	.9	*	.0	.0	1.2	1.1	.2	.0	2.5	2.5
8-9	.0	.0	.3	.2	.1	.0	.5	.0	.0	.0	.3	.5	.2	.0	1.0	1.0
10-11	.0	.0	.2	.2	.1	.0	.4	.0	*	.2	.6	.2	.0	.9	.9	.9
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.2	.0	.3	.3
13-16	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	*	.2	.1	.0	.3	.3
17-19	.0	.0	.0	*	.1	.0	.1	.0	.0	.0	.0	.1	*	.0	.1	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.7	4.5	1.2	.3	.0	9.0	.4	6.5	7.9	3.8	.9	.9	.0	19.5	19.5

PERIOD: (OVER-ALL) 1963-1975

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.4	.3	.0	.0	.0		.8	.2	.8	.1	.0	.0	.0		1.1
1-2	.5	5.3	1.6	.0	.0	.0		7.5	.3	2.9	.8	.0	.0	.0		3.9
3-4	.1	3.3	4.1	.0	.0	.0		8.0	*	2.5	3.2	.3	.0	.0		6.0
5-6	.0	1.0	3.2	1.3	.0	.0		5.6	.0	.7	2.3	.3	.0	.0		3.3
7	.1	.2	1.7	1.2	*	.0		3.2	.0	.2	.8	.4	*	.0		1.4
8-9	.0	.1	.5	.9	.0	.0		1.5	.0	.1	.3	.2	.1	.0		.6
10-11	.0	*	.2	.2	.1	.0		.6	.0	.1	.1	*	.1	.0		.2
12	.0	.0	.0	.3	.0	.0		.3	.0	.0	.1	.1	.0	.0		.2
13-16	.0	.0	*	.1	.0	.0		.1	.0	.0	.0	.0	*	.0		*
17-19	.0	.0	.0	*	.2	.0		.3	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	*	.0	.0		*	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	10.3	11.7	4.7	.4	.0		27.9	.5	7.1	7.6	1.4	.1	.0		16.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.5	.0	.0	.0	.0		.5	*	.4	.1	.0	.0	.0		.6	
1-2	.2	2.6	1.1	.0	.0	.0		3.8	.0	1.4	.1	.0	.0	.0		1.5	
3-4	.0	1.2	2.9	.2	.0	.0		4.3	.0	.2	1.0	*	.0	.0		1.2	
5-6	.0	.2	2.6	.9	.1	.0		3.7	.0	.1	.5	.2	.1	.0		.8	
7	.0	.2	.8	1.0	.1	.1		2.0	.0	.0	.2	.2	.0	.0		.4	
8-9	.0	.0	.4	.5	.2	.0		1.1	.0	.0	.1	.2	*	.0		.3	
10-11	.0	.0	.1	.3	.0	.0		.4	.0	.0	*	.1	.1	.0		.2	
12	.0	.0	.1	.2	.1	.0		.4	.0	.0	.0	.1	.0	.0		.1	
13-16	.0	.0	.1	.2	.1	.0		.5	.0	.0	.0	.0	.0	*		.1	
17-19	.0	.0	.0	.2	.1	.0		.7	.0	.0	.0	.0	.0	*		.1	
20-22	.0	.0	.0	.1	*	.0		.1	.0	.0	.0	.0	.1	.0		.1	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	4.6	8.0	3.5	.7	.1		17.1	*	2.0	2.1	.9	.3	.0		5.3	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	3.3	.6	.0	.0	.0	6.9	
1-2	1.4	17.8	5.1	.0	.0	.0	24.0	
3-4	.3	10.5	15.9	1.5	.0	.0	28.2	
5-6	.0	2.5	12.4	3.8	.3	.0	19.0	
7	.1	.5	5.2	4.1	.3	.1	10.3	
8-9	.0	.2	1.9	2.7	.5	.0	5.3	
10-11	.0	.1	.7	1.4	.5	.0	2.7	
12	.0	.0	.2	1.1	.2	.0	1.4	
13-16	.0	.0	.2	.7	.3	.0	1.1	
17-19	.0	.0	.0	.4	.4	.0	.8	
20-22	.0	.0	.0	.1	.2	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	34.5	42.1	15.8	2.6	.1	100.0	1953

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	2.9	5.9	4.9	3.5	2.2	2.0	.6	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	607	6
6-7	.0	.3	3.1	6.3	5.7	3.9	3.3	2.0	1.8	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	700	8
8-9	.0	*	1.1	2.7	4.4	3.9	3.5	1.6	3.3	1.1	.3	*	.0	.0	.0	.0	.0	.0	.0	559	9
10-11	.0	.3	.4	.9	2.0	1.7	1.8	.9	2.3	.8	.3	.1	*	*	.0	.0	.0	.0	.0	290	10
12-13	.0	.0	.5	.6	.5	.8	1.0	.4	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	125	10
>13	.0	.0	.0	.4	.3	.3	.2	.1	.5	.2	.1	*	.1	.0	.0	.0	.0	.0	.0	56	11
INDET	.7	.6	1.2	1.2	1.6	.8	1.0	.4	.4	*	*	.0	*	.0	.0	.0	.0	.0	.0	204	6
TOTAL	30	107	309	430	457	348	327	154	253	80	33	8	4	1	0	0	0	0	0	2541	8
PCT	1.2	4.2	12.2	16.9	18.0	13.7	12.9	6.1	10.0	3.1	1.3	.3	.2	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1872-1976
(OVER-ALL) 1854-1976

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WU PCPN	FOG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	3.8	3.5	3.3	.0	.0	.0	.0	10.6	1.9	1.3	0.3	.6	1.8	.1		77.6
NE	1.3	.8	.8	.0	.0	.0	.0	2.9	.5	1.3	4.8	.5	1.4	.1		88.6
E	.7	.5	.6	.0	.0	.0	.0	1.8	.7	.9	2.2	.3	2.2	.1		91.8
SE	.9	.7	.6	.0	.0	.0	*	2.2	.7	.0	2.3	.1	1.8	.1		92.2
S	1.2	1.2	1.1	.0	.0	.0	.0	3.3	1.9	.6	2.1	.1	1.3	.1		90.5
SW	2.1	2.4	1.4	.0	.0	.0	*	5.8	3.3	.5	1.3	.2	.8	*		88.1
W	2.0	2.9	1.6	.0	.0	.0	*	7.0	4.3	.6	1.4	.1	1.1	.1		85.5
NW	4.5	3.5	2.2	.0	.0	.0	*	10.1	3.0	.9	3.7	.1	1.1	.1		81.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.8	.8	.8	.0	.0	.0	.0	3.4	.1	4.0	11.2	.1	2.8	.0		78.4
TOT PCT	1.9	1.8	1.2	.0	.0	.0	*	4.9	2.1	.9	2.7	.2	1.5	.1		87.7
TOT OBS:	47735															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NIG SIG WEA
00003	2.2	2.0	1.4	.0	.0	.0	*	5.6	1.9	2.6	3.7	.1	.9	.1		85.3
06009	2.2	1.9	1.5	.0	.0	.0	*	5.4	2.9	.4	3.0	.3	1.5	.1		86.5
12015	1.7	1.8	1.0	.0	.0	.0	*	4.5	1.6	.1	2.1	.1	2.3	.1		89.2
18021	1.7	1.5	1.1	.0	.0	.0	*	4.2	2.0	.9	2.5	.1	1.4	.1		88.8
TOT PCT	2.0	1.8	1.2	.0	.0	.0	*	4.9	2.1	1.0	2.8	.2	1.5	.1		87.5
TOT OBS: 50211																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21	
N	.4	1.7	1.3	.6	.2	.1		4.3	13.1	3.9	4.8	5.0	5.5	4.8	4.2	3.2	3.5		
NE	.4	1.7	1.0	.3	*	*		3.4	11.2	3.2	3.9	4.6	3.8	3.5	2.7	2.5	3.9		
E	.6	3.6	4.5	1.9	.3	*		10.9	14.6	11.4	12.2	12.3	10.3	10.6	9.4	9.8	13.0		
SE	.8	5.6	7.2	3.7	.7	.1		18.0	15.2	19.1	18.1	16.6	16.5	16.6	19.3	19.4	18.1		
S	.9	6.4	6.7	2.3	.3	*		16.7	13.3	17.6	14.2	16.1	18.3	15.8	17.0	18.8	19.2		
SW	.9	5.9	5.4	1.8	.4	.1		14.6	13.6	14.0	13.7	13.0	14.0	14.7	16.1	16.2	13.3		
W	.9	5.3	6.1	3.1	1.1	.3		16.8	16.2	15.7	14.5	16.6	18.7	18.5	16.5	16.8	17.7		
NW	.9	3.5	3.6	2.2	.8	.3		11.1	15.8	9.9	11.6	11.2	11.8	12.4	12.2	9.7	9.6		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.1							4.1	.0	5.3	7.0	4.6	.9	2.9	2.7	3.7	1.7		
TOT OBS							105002		14.2	18105	11434	18138	1477	25437	9910	19486	1015		
TOT PCT	9.9	33.7	35.8	15.9	3.8	.9		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.3	1.7	.9	.3	.1		4.3	13.1	4.2	5.1	4.7	3.2	
NE	1.1	1.6	.6	.1	*		3.4	11.2	3.4	4.5	3.3	2.5	
E	2.0	4.7	3.2	.9	.1		10.9	14.6	11.7	12.1	10.2	9.9	
SE	3.0	7.2	5.7	1.8	.2		18.0	15.2	18.7	16.6	17.4	19.3	
S	3.4	7.8	4.4	1.0	.1		16.7	13.3	16.3	16.3	16.2	18.4	
SW	3.3	6.7	3.5	.9	.2		14.6	13.6	13.9	13.1	15.1	16.1	
W	3.0	6.6	4.5	2.0	.6		16.8	16.2	15.2	16.8	18.0	16.9	
NW	2.4	3.9	3.0	1.4	.5		11.1	15.8	10.6	11.3	12.4	9.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.1						4.1	.0	5.9	4.3	2.8	3.6	
TOT OBS						105002		14.2	29539	19615	35347	20501	
TOT PCT	23.6	40.3	25.8	8.4	1.9		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1872-1976
(OVER-ALL) 1894-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	5.9	6.2	33.4	34.7	15.2	3.6	.8	13.8	100.0	29539
06009	4.3	5.9	35.1	35.4	15.0	3.2	.5	13.7	100.0	19615
12015	2.8	5.7	32.8	36.4	16.7	4.4	1.1	14.8	100.0	35347
18021	3.6	5.0	34.4	30.6	16.1	3.5	.7	14.2	100.0	20501
TOT										105002
PCT	4.1	5.8	33.7	35.5	15.9	3.8	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS'D	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.4	1.0	.9		4.9
NE	1.6	.5	.6	.3		3.3
E	6.4	1.8	2.3	1.1		2.8
SE	9.2	2.8	3.7	1.5		2.9
S	8.4	3.8	5.2	2.2		3.5
SW	4.4	3.2	5.1	2.1		4.3
W	5.0	3.8	6.8	3.3		4.6
NW	2.1	1.5	3.4	2.1		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.3	.3	.4	.4		3.1
TOT OBS					32788	3.8
TOT PCT	39.4	18.2	28.5	13.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.1	*	.1	.3	.5	.3	.1	*	*	*	1.9	
*	.0	*	.1	.2	.1	*	*	*	*	2.4	
.1	*	.1	.5	.9	.5	.2	*	*	.1	.1	9.3
.1	*	.1	.7	1.6	.8	.2	.1	*	.1	13.5	
.1	*	.2	1.0	2.3	1.3	.4	.1	*	.1	13.9	
.1	*	.2	1.0	2.3	1.4	.3	.1	*	*	9.4	
.1	*	.3	1.7	3.2	1.6	.5	.2	.1	.1	11.1	
.1	*	.2	.9	1.6	.8	.3	.1	*	.1	5.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.1	*	*	.1	.2	.1	*	*	*	*	1.8	
.6	.2	1.4	6.3	12.8	7.0	2.1	.6	.3	.6	68.1	32788 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
* OR >3500	3.0	3.6	3.6	3.7	3.7	3.7	3.7	3.7
* OR >2000	8.6	10.3	10.5	10.5	10.6	10.6	10.6	10.6
* OR >1000	18.3	22.5	23.1	23.2	23.3	23.3	23.3	23.3
* OR >600	22.2	28.2	29.3	29.4	29.5	29.5	29.5	29.5
* OR >300	22.7	29.3	30.5	30.7	30.8	30.8	30.9	30.9
* OR >150	22.8	29.4	30.7	30.9	31.0	31.0	31.1	31.1
* OR > 0	22.9	29.6	31.1	31.3	31.4	31.5	31.7	31.7

TOTAL NUMBER OF OBS: 33743

PCT FREQ NH <5/8: 68.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS'D	TOTAL OBS
21.4	15.7	12.6	10.2	7.9	6.0	7.2	7.8	10.8	.4	35700

PERIOD: (PRIMARY) 1872-1976
(OVER-ALL) 1854-1976

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TABLE 3

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	.1	.0	*	.1	
	NO PCP	.1	.1	.1	.1	.1	*	.1	.1	.0	.2	.8	
	TOT %	.1	.1	.1	.1	.1	*	.1	.2	.0	.3	.9	
1/2<1	PCP	*	*	*	*	*	*	*	.1	.0	*	.2	
	NO PCP	*	*	*	.1	.1	*	*	.1	.0	.3	.9	
	TOT %	.1	*	*	.1	.1	.1	.1	.2	.0	.3	1.1	
1<2	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	NO PCP	*	*	.1	.1	.1	*	.1	.1	.0	.2	.7	
	TOT %	.1	*	.1	.1	.1	.1	.1	.1	.0	.2	.9	
2<5	PCP	.1	*	*	.1	.1	.1	.2	.2	.0	*	.8	
	NO PCP	.1	*	.1	.2	.2	.1	.2	.2	.0	.1	1.2	
	TOT %	.2	*	.2	.2	.2	.2	.4	.3	.0	.1	2.0	
5<10	PCP	.2	*	.1	.2	.3	.4	.6	.7	.0	.1	2.6	
	NO PCP	.9	.5	1.7	4.7	2.9	2.2	3.2	3.2	.0	2.5	21.9	
	TOT %	1.1	.6	1.8	4.9	3.2	2.6	3.8	3.9	.0	2.6	24.5	
10+	PCP	.1	*	.1	.1	.1	.2	.3	.1	.0	*	1.0	
	NO PCP	2.2	2.2	8.1	12.4	14.0	10.5	12.4	6.0	.0	1.8	69.6	
	TOT %	2.2	2.2	8.1	12.5	14.1	10.7	12.7	6.2	.0	1.8	70.6	
TOT OBS		47684											
TOT PCT		3.7	2.9	10.3	18.0	17.8	13.7	17.2	11.0	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	*	*	.0	.3	.4	
	4-10	*	*	*	*	.1	*	*	.1	.0	.3		
	11-21	*	*	*	*	*	*	*	*	.0	.2		
	22+	*	*	.0	*	*	*	*	*	.0	.1		
	TOT %	.1	.1	.1	.1	.1	.1	.1	.2	.0	.3	1.0	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.3	.4	
	4-10	*	*	*	.1	*	*	*	.1	.0	.3		
	11-21	*	*	*	*	*	*	*	*	.0	.2		
	22+	*	*	*	*	*	*	*	*	.0	.1		
	TOT %	.1	*	*	.1	.1	.1	.1	.2	.0	.3	1.0	
1<2	0-3	*	*	*	*	*	*	*	*	.0	.2	.2	
	4-10	*	*	*	.1	.1	*	*	.1	.0	.3		
	11-21	*	*	*	*	*	*	*	*	.0	.3		
	22+	*	*	*	*	*	*	*	*	.0	.2		
	TOT %	.1	*	.1	.1	.1	.1	.1	.2	.0	.2	.9	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	*	*	.1	.1	.1	.1	.1	.1	.0	.6		
	11-21	.1	*	.1	.1	.1	.1	.2	.1	.0	.8		
	22+	.1	*	.1	.1	*	.1	.2	.2	.0	.8		
	TOT %	.2	.1	.2	.3	.3	.3	.5	.4	.0	.1	2.4	
5<10	0-3	.1	.1	.1	.3	.2	.2	.2	.7	.0	2.3	4.1	
	4-10	.4	.2	.5	1.4	1.2	1.0	1.1	1.2	.0	7.0		
	11-21	.4	.2	.8	1.7	1.2	.9	1.2	1.0	.0	7.2		
	22+	.2	*	.4	1.1	.5	.4	1.1	.8	.0	4.5		
	TOT %	1.1	.5	1.8	4.5	3.0	2.5	3.6	3.6	.0	2.3	22.9	
10+	0-3	.3	.2	.3	.4	.7	.6	.5	.2	.0	2.1	5.3	
	4-10	1.1	1.3	3.0	4.3	5.9	5.0	4.4	2.2	.0	27.2		
	11-21	.8	.7	3.5	5.3	5.8	4.1	5.3	2.7	.0	28.2		
	22+	.3	.1	1.4	2.6	1.7	1.2	2.5	1.3	.0	11.2		
	TOT %	2.4	2.3	8.3	12.6	14.1	10.9	12.7	6.4	.0	2.1	71.9	
TOT OBS		57516											
TOT PCT		3.9	3.0	10.5	17.8	17.7	13.9	17.0	11.0	.0	5.2	100.0	

PERIOD: (PRIMARY) 1872-1976
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	.1	1.2	5.9	12.1	6.6	1.9	.6	.2	.7	30.1	69.9	7810
06009	.7	.3	1.8	7.9	15.4	8.2	2.5	.8	.3	.5	38.3	61.7	9325
12015	.4	.2	1.1	5.1	10.9	5.9	2.0	.5	.3	.6	27.0	73.0	9631
18021	.6	.1	1.2	5.1	10.6	6.1	1.9	.6	.3	.5	26.9	73.1	8142
TOT PCT	.6	.2	1.3	6.0	12.3	6.7	2.1	.6	.3	.6	30.7	69.3	34914 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.5	1.6	.7	1.9	25.6	66.7	15955
06009	1.2	.9	1.2	3.0	21.3	72.5	13986
12015	.6	.7	1.1	2.4	25.2	69.9	16919
18021	.9	.9	.9	2.2	22.3	72.7	13163
TOT PCT	1.0	1.0	1.0	2.4	23.8	70.8	60023 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.9	2.5	9.7	22.5	67.8	7435
06009	.8	3.0	12.6	27.2	60.1	9102
12015	.4	1.9	8.5	19.9	71.6	9342
18021	.6	2.1	8.5	20.0	71.5	7864
TOT PCT	.7	2.4	9.9	22.5	67.7	33743 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	*	.0	.0	.0	.0	.0	.0	.0	*	*
85/89	*	*	*	*	.0	*	.0	.0	*	*
80/84	*	*	*	.1	*	*	*	*	1.2	*
75/79	*	*	.1	.3	.3	.1	.1	.1	1.1	*
70/74	*	*	.1	.5	1.4	2.1	2.1	1.2	7.5	*
65/69	.0	*	.2	1.2	3.9	7.1	8.1	4.4	24.9	*
60/64	.0	*	.2	1.6	5.5	9.9	12.6	7.7	37.4	*
55/59	.0	*	.1	1.4	4.1	7.1	7.8	5.3	25.7	*
50/54	.0	.0	*	.1	.6	.8	.9	.7	3.1	*
45/49	.0	.0	.0	*	*	*	.1	.1	.2	*
40/44	.0	.0	.0	.0	.0	.0	.0	*	*	*
TOTAL PCT	*	.2	.8	5.1	15.8	27.3	31.6	19.3	39753	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
.0	.0	*	*	*	.0	*	*	.0	*
.0	.0	*	.1	*	*	*	*	.0	*
*	*	.1	.4	.1	.1	.1	.1	.0	.1
.1	.2	1.2	1.9	1.3	.9	1.0	.5	.0	.4
.5	.6	3.0	5.3	5.1	3.6	3.8	1.9	.0	1.0
1.4	1.2	3.7	6.3	6.7	5.0	6.7	4.4	.0	1.9
1.4	.8	2.0	3.6	4.0	3.5	5.2	3.8	.0	1.4
.1	.1	.1	.3	.5	.6	.7	.3	.0	.4
*	*	*	*	*	*	*	*	.0	.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	*
3.5	2.9	10.2	18.0	17.8	13.8	17.5	11.1	.0	5.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	69	67	62	56	53	44	61.8	29348
06009	89	70	68	63	57	53	45	62.4	19705
12015	89	75	71	65	59	55	46	64.6	35045
18021	91	71	68	63	57	54	46	62.8	20480
TOT	91	73	69	63	57	54	44	63.0	104578

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	*	4.0	12.4	25.0	33.8	24.9	81	10900		
06009	*	4.9	14.5	26.8	32.2	21.5	80	10025		
12015	.1	11.0	20.7	29.0	27.1	12.1	75	11505		
18021	*	4.8	14.8	27.1	33.7	19.7	79	9522		
TOT	18	2664	6622	11307	13209	8132	79	41952		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	7	.0	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	12	.0	*
20/22	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	35	.0	.1
17/19	.0	.0	.0	.0	*	*	*	*	*	*	*	.0	56	*	.1
14/16	.0	.0	.0	.0	*	.1	.1	.1	*	*	*	.0	158	*	.4
11/13	.0	.0	.0	*	.1	.2	.2	.1	*	*	*	.0	334	*	.8
9/10	.0	.0	.0	*	.2	.4	.3	.1	*	*	*	.0	470	*	1.1
7/8	.0	.0	.0	.1	.6	.7	.4	.2	.1	.0	.0	.0	865	.1	1.9
6	.0	.0	*	.2	.4	.6	.2	.1	*	.0	.0	.0	663	*	1.5
5	.0	.0	*	.3	1.0	.9	.5	.2	*	.0	.0	.0	1235	.1	2.8
4	.0	.0	.1	.5	1.5	1.0	.5	.2	*	.0	.0	.0	1622	.1	3.7
3	.0	*	.1	.8	1.7	1.3	.6	.2	*	.0	.0	.0	2005	.1	4.6
2	.0	*	.2	1.4	2.9	1.9	1.0	.2	*	.0	.0	.0	3228	.2	7.4
1	.0	*	.2	2.6	3.6	2.4	1.6	.2	*	.0	.0	.0	4445	.2	10.4
0	*	*	.5	4.1	5.0	3.2	1.7	.1	*	.0	.0	.0	6092	.3	14.2
-1	.0	*	.7	4.6	3.8	2.9	1.2	.1	*	.0	.0	.0	3562	.2	13.1
-2	.0	*	1.1	4.1	3.4	2.5	.6	*	.0	.0	.0	.0	4882	.2	11.5
-3	.0	*	1.3	2.7	2.0	1.7	.3	*	.0	.0	.0	.0	3365	.1	7.9
-4	*	.1	1.2	2.0	1.7	1.1	.1	*	.0	.0	.0	.0	2580	.1	6.1
-5	*	.1	1.0	1.4	1.2	.6	.1	*	.0	.0	.0	.0	1816	.1	4.3
-6	*	.1	.6	.7	.5	.2	*	.0	.0	.0	.0	.0	899	*	2.1
-7/-8	*	.2	.6	.7	.5	.2	*	.0	.0	.0	.0	.0	926	*	2.2
-9/-10	*	.1	.3	.2	.2	.1	*	.0	.0	.0	.0	.0	399	*	.9
-11/-13	*	.1	.1	.1	.1	*	*	.0	.0	.0	.0	.0	180	*	.4
-14/-16	*	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	62	*	.1
-17/-19	.0	*	*	*	*	*	.0	.0	.0	.0	.0	.0	11	.0	*
-20/-22	.0	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	5	.0	*
-23/-25	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL													41917		
PCT	.1	.8	8.0	26.7	30.5	22.0	9.4	2.0	.4	.1	*	*	100.0	2.2	97.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	*	.0	.0	.0	.4	.1	.1	*	.0	.0	.0	.2
1-2	.1	.7	.2	.0	.0	.0	1.0	.2	1.0	.2	.0	.0	.0	1.3
3-4	*	.3	.5	.1	.0	.0	.8	*	.4	.4	*	.0	.0	.8
5-6	*	.1	.4	.1	*	.0	.6	*	.1	.3	*	.0	.0	.4
7	.0	*	.1	.1	*	.0	.3	.0	*	.1	.1	.0	.0	.1
8-9	.0	*	.1	*	.0	.0	.1	.0	*	*	*	.0	.0	*
10-11	*	*	*	.1	*	.0	.1	.0	.0	*	*	.0	.0	*
12	.0	.0	.0	*	*	.0	.1	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.0	*	*	.0	*	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	1.2	.5	.1	*	3.4	.3	1.6	1.0	.2	*	*	3.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	*	.0	.0	.0	.7	.2	.4	*	.0	.0	.0	.6
1-2	.2	2.2	.7	.0	.0	.0	3.0	.2	2.9	1.0	.0	.0	.0	4.1
3-4	*	1.1	1.9	.2	.0	.0	3.2	*	1.6	2.4	.4	.0	.0	4.4
5-6	*	.3	1.4	.4	*	.0	2.2	*	.3	2.3	.8	.1	.0	3.5
7	.0	*	.8	.5	*	.0	1.4	*	.1	1.3	.8	.1	.0	2.2
8-9	.0	*	.3	.4	.1	.0	.8	.0	*	.3	.6	.1	.0	1.0
10-11	.0	*	.1	.2	*	.0	.4	.0	*	.2	.5	.1	*	.8
12	.0	*	*	.1	*	*	.2	*	*	*	.2	*	.0	.3
13-16	.0	.0	*	.1	*	*	.2	.0	*	*	.2	.1	*	.3
17-19	.0	*	*	*	.1	.0	.1	.0	*	*	.1	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	5.2	2.0	.3	*	12.0	.3	5.4	7.5	3.4	.5	*	17.3

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	.1	.0	.0	.0	1.0	.3	.6	.1	.0	.0	.0	1.0
1-2	.3	4.1	1.1	.0	.0	.0	5.6	.2	3.3	.7	.0	.0	.0	4.1
3-4	*	2.2	2.9	.3	.0	.0	5.4	*	1.7	2.0	.2	.0	.0	4.0
5-6	*	.5	2.4	.0	*	.0	3.5	*	.4	1.6	.4	*	.0	2.4
7	*	.1	1.1	.6	.1	.0	1.9	*	.1	.7	.4	*	*	1.3
8-9	.0	.1	.4	.5	*	.0	1.0	.0	.1	.3	.3	*	.0	.7
10-11	.0	*	.2	.3	.1	.0	.6	.0	*	.1	.2	*	*	.4
12	.0	*	*	.2	*	.0	.2	*	*	*	.1	*	.0	.2
13-16	.0	*	*	.1	*	.0	.2	*	*	*	.1	*	.0	.2
17-19	.0	*	*	*	*	*	.1	.0	*	.0	*	*	.0	.1
20-22	.0	.0	*	*	*	.0	.1	.0	.0	*	*	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.8	8.2	2.6	.3	*	19.5	.6	6.3	5.5	1.7	.2	*	14.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.7	.1	.0	.0	.0	.9	.1	.4	*	.0	.0	.0	.5	
1-2	.2	2.9	1.1	.0	.0	.0	4.2	.1	1.4	.6	.0	.0	.0	2.0	
3-4	*	1.6	2.7	.3	.0	.0	4.7	*	.7	1.3	.2	.0	.0	2.2	
5-6	*	.3	2.3	.8	.1	.0	3.4	.0	.2	1.0	.5	.1	.0	1.7	
7	.0	.1	1.2	.8	.2	*	2.3	.0	*	.5	.5	*	.0	1.0	
8-9	*	*	.3	.7	.1	*	1.2	.0	*	.2	.3	.1	.0	.6	
10-11	.0	*	.2	.5	.2	*	.9	.0	.0	*	.3	.1	*	.4	
12	*	*	*	.3	.1	*	.9	.0	.0	*	.1	*	*	.1	
13-16	.0	.0	.1	.3	.1	.0	.5	.0	.0	*	.2	.1	*	.3	
17-19	.0	*	*	.1	.1	*	.2	.0	.0	.0	*	*	*	*	
20-22	.0	.0	*	*	*	*	.1	.0	.0	.0	*	*	*	*	
23-25	.0	.0	.0	*	*	*	*	.0	.0	.0	*	.0	.0	*	
26-32	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	5.7	7.9	3.9	.9	*	19.0	.1	2.7	3.7	2.0	.4	*	9.0	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	3.4	.2	.0	.0	.0	8.9	
1-2	1.9	18.4	5.4	.0	.0	.0	25.7	
3-4	.2	9.5	13.7	1.5	.0	.0	24.9	
5-6	.1	2.1	11.4	3.5	.3	.0	17.3	
7	*	.5	5.7	3.7	.4	*	10.3	
8-9	*	.2	1.9	2.9	.4	*	5.4	
10-11	*	.1	.8	2.1	.5	*	3.5	
12	*	*	.2	.9	.2	*	1.4	
13-16	*	*	.1	.9	.4	*	1.5	
17-19	.0	*	*	.2	.3	*	.6	
20-22	.0	.0	*	.1	.1	*	.3	
23-25	.0	.0	.0	*	*	*	.1	
26-32	.0	.0	.0	*	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	34.5	39.5	15.9	2.7	.1	100.0	22839

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.5	3.2	5.3	4.3	3.3	1.7	1.2	.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6111	5
6-7	* .	.5	3.0	5.4	5.7	4.1	3.3	1.5	1.8	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	7707	8
8-9	.0	.1	1.0	2.9	4.5	3.8	3.8	2.0	2.9	.9	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	6623	9
10-11	.0	.2	.5	1.0	2.0	1.9	1.9	1.2	2.0	.6	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	3486	10
12-13	.0	.0	.6	.5	.7	.8	1.0	.6	1.1	.4	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	1754	10
>13	.0	.0	.0	.4	.4	.4	1.4	.3	.5	.2	.2	.1	*	*	.0	.0	.0	.0	.0	.0	818	12
INDET	1.1	.6	1.2	1.6	1.7	1.2	1.1	.4	.5	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	2846	6
TOTAL																					29345	8
PCT	1.7	4.7	11.5	16.1	18.2	13.8	12.6	6.4	9.5	3.1	1.6	.5	.3	*	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1872-1976
(OVER-ALL) 1854-1976

TABLE 20

AREA 0019 CAPE TOWN
34.35 18.5E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	*
83/84	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	*
81/82	.0	.0	.1	*	*	.0	.0	.0	.0	.0	.0	*	12	*
79/80	.1	*	.1	*	*	.0	.0	.0	.0	.0	*	*	18	*
77/78	.3	.3	.2	.1	.0	*	*	.0	*	*	.0	*	81	.1
75/76	1.1	.9	.5	.2	.1	*	.0	*	*	.1	.1	.2	245	.3
73/74	4.1	3.7	1.5	.6	.3	.1	.1	*	*	.1	.1	.8	882	1.0
71/72	13.3	15.3	7.7	1.6	.7	.2	.1	.1	.1	.3	.5	2.7	3280	3.5
69/70	25.5	26.5	21.2	5.9	1.5	.7	.4	.4	.2	.6	1.2	9.6	7282	7.9
67/68	24.0	21.1	23.3	16.9	5.3	1.8	1.1	.9	.6	1.2	6.1	25.6	10027	10.8
65/66	12.1	9.5	16.1	26.6	16.7	4.8	3.1	1.7	1.9	4.4	17.9	27.0	11186	12.1
63/64	6.7	7.0	9.8	21.7	33.9	17.9	10.4	7.2	8.8	20.1	37.6	19.7	15807	17.1
61/62	4.1	5.2	5.1	9.0	21.6	29.8	21.9	17.4	20.9	32.4	21.1	6.0	14991	16.2
59/60	3.4	3.9	4.1	5.9	17.3	27.1	33.6	32.4	37.9	27.7	8.4	3.8	14959	18.1
57/58	2.4	3.2	4.8	5.4	4.8	11.1	21.3	29.0	22.2	9.1	3.7	2.1	8897	9.6
55/56	1.7	2.0	3.3	3.0	3.2	4.2	6.2	8.8	5.8	2.7	2.0	1.5	3438	3.7
53/54	.7	.9	1.5	1.6	1.2	1.4	1.4	1.5	1.2	.9	.9	.6	1069	1.2
51/52	.4	.3	.5	.5	.3	.6	.4	.4	.3	.2	.3	.2	349	.4
49/50	.1	.1	.2	.1	.1	.2	*	.2	.1	.1	.1	.1	98	.1
47/48	*	*	*	*	.1	*	*	.1	*	.0	*	*	28	*
45/46	.0	.0	*	*	*	*	.0	.0	*	.0	*	.0	7	*
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	8273	6849	8292	7703	8673	8222	7743	6948	7017	7332	7818	7788	92658	100.0
MEAN	67.2	67.1	65.8	64.0	62.6	60.8	59.8	59.2	59.6	61.0	62.9	65.3	62.9	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1014	1014	1014	1014	1014	1014	1015	1014	5563
FEB	1014	1014	1014	1014	1014	1014	1014	1014	1014	4418
MAR	1016	1015	1016	1015	1016	1015	1015	1016	1016	5446
APR	1017	1016	1017	1016	1017	1016	1017	1016	1017	4827
MAY	1018	1018	1018	1018	1017	1018	1018	1017	1018	4826
JUN	1020	1019	1020	1018	1019	1018	1019	1019	1019	4871
JUL	1021	1022	1021	1020	1021	1021	1022	1021	1021	5068
AUG	1020	1019	1020	1019	1020	1019	1020	1021	1020	4596
SEP	1020	1019	1020	1019	1020	1019	1020	1018	1020	4626
OCT	1017	1017	1018	1017	1018	1017	1018	1017	1017	4826
NOV	1016	1016	1017	1015	1016	1015	1017	1015	1016	4576
DEC	1015	1015	1015	1015	1015	1015	1015	1016	1015	4936
ANN	1017	1017	1018	1017	1017	1017	1017	1017	1017	58579
OBS	11119	3465	11837	1489	14505	3849	11265	1050		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1000	1005	1008	1012	1014	1017	1020	1022	1027
FEB	1000	1003	1007	1011	1014	1017	1021	1024	1028
MAR	1001	1005	1009	1013	1015	1018	1024	1027	1030
APR	1000	1003	1008	1014	1017	1020	1025	1029	1033
MAY	1000	1002	1008	1014	1018	1022	1027	1029	1037
JUN	1000	1004	1009	1015	1019	1024	1030	1033	1038
JUL	1002	1006	1011	1017	1021	1026	1031	1035	1040
AUG	1002	1006	1010	1016	1020	1024	1031	1034	1040
SEP	1002	1006	1010	1016	1020	1023	1029	1032	1038
OCT	1001	1004	1009	1014	1017	1021	1026	1032	1036
NOV	1001	1004	1009	1013	1016	1019	1025	1029	1033
DEC	1000	1004	1008	1012	1015	1018	1022	1024	1030

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

JANUARY

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	.0	4.8	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	95.2	
NE	1.9	.0	.2	.0	.0	.0	.0	2.1	.0	1.6	1.0	.0	.6	.0	94.6	
E	.2	.0	1.8	.0	.0	.0	.0	2.0	.5	1.4	1.2	.0	3.0	.0	91.9	
SE	1.6	1.0	2.9	.0	.0	.0	.0	5.5	1.7	1.8	1.0	.0	.1	.0	89.6	
S	.2	1.8	1.7	.0	.0	.0	.0	3.7	3.1	.2	1.5	.0	.0	.0	91.5	
SW	2.4	2.1	1.5	.0	.0	.0	.0	6.0	1.4	1.0	.6	.0	.7	.0	90.6	
W	2.4	1.3	.8	.0	.0	.0	.0	4.5	2.4	.6	1.0	.0	2.5	.0	89.3	
NW	1.1	.0	.4	.0	.0	.0	.0	1.5	1.5	.0	1.5	.0	.7	.0	94.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.1	.0	1.6	.0	92.2	
TOT PCT	1.5	1.2	1.3	.0	.0	.0	.0	4.0	1.6	1.0	1.1	.0	1.5	.0	91.0	
TOT OBS:	2157															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE											OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
00003	1.6	2.0	2.6	.0	.0	.0	.0	6.1	1.8	2.4	.6	.0	.8	.0	88.7	
06009	2.4	1.3	1.3	.0	.0	.0	.0	4.9	1.3	.0	1.4	.0	1.4	.0	91.0	
12015	.7	1.1	.9	.0	.0	.0	.0	2.7	1.8	.0	.5	.0	1.8	.0	93.3	
18021	1.6	.6	.8	.0	.0	.0	.0	3.1	1.3	1.9	1.6	.0	1.9	.0	90.3	
TOT PCT	1.6	1.2	1.3	.0	.0	.0	.0	4.1	1.5	1.1	1.1	.0	1.5	.0	90.9	
TOT OBS:	2245															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	.7	.3	.1	*	.0		1.4	9.1		1.0	1.7	2.5	1.9	.6	.7	.6	2.4
NE	.4	2.0	2.4	1.0	.1	*		6.0	14.1		6.1	8.2	8.2	7.5	3.0	3.2	4.2	7.5
E	.7	6.6	9.3	2.9	.4	*		19.9	14.4		19.2	19.9	19.1	16.5	18.6	19.3	21.9	23.9
SE	.8	6.3	4.3	.6	.1	.0		11.9	10.6		10.1	11.2	9.1	9.0	9.6	16.5	14.9	14.5
S	1.3	5.7	2.7	.5	.1	*		10.3	9.8		9.3	9.0	6.0	9.0	12.8	14.4	12.1	10.6
SW	1.5	8.4	6.6	2.5	.6	.1		19.7	13.3		19.8	16.4	17.5	20.6	25.3	22.7	21.5	13.6
W	1.1	8.0	8.4	3.9	1.1	.2		22.6	15.4		26.0	20.4	27.5	25.5	24.9	18.1	20.2	18.1
NW	.4	2.1	1.4	.5	.2	*		4.6	12.7		3.7	7.4	6.2	6.1	2.9	3.2	2.3	5.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0		4.8	5.7	3.9	3.9	2.4	1.9	2.2	4.2
TOT DRS	575	2284	2040	691	149	24	5763		12.8		499	698	926	664	674	587	1118	597
TOT PCT	10.0	39.6	35.4	12.0	2.6	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.7	.6	.1	*	*		1.4	9.1	1.4	2.3	.6	1.2	
NE	1.3	2.5	1.7	.4	.1		6.0	14.1	7.3	7.9	3.1	5.3	
E	3.0	9.2	6.4	1.1	.1		19.9	14.4	19.7	18.0	18.9	22.6	
SE	3.4	6.2	2.1	.1	.0		11.9	10.6	10.8	9.1	12.8	14.7	
S	3.8	5.0	1.2	.2	*		10.3	9.8	9.1	7.2	13.6	11.6	
SW	5.0	8.9	4.2	1.5	.3		19.7	13.3	17.9	18.8	24.1	18.8	
W	4.2	9.6	6.0	2.4	.5		22.6	15.4	22.7	26.6	21.7	19.5	
NW	1.4	1.8	1.0	.3	.1		4.6	12.7	5.9	6.2	3.1	3.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.5						3.5	.0	5.3	3.9	2.1	2.9	
TOT DRS	1514	2518	1319	349	63	5763		12.8	1197	1590	1261	1715	
TOT PCT	26.3	43.7	22.9	6.1	1.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

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AREA 0020 PORT ELIZABETH
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	5.3	6.2	41.0	34.1	10.8	2.6	.0	12.2	100.0	1197
06009	3.9	7.9	37.1	35.4	12.4	2.6	.0	12.8	100.0	1590
12015	2.1	5.4	37.5	37.9	13.5	2.9	.3	13.8	100.0	1261
18021	2.9	6.1	42.6	34.5	11.4	2.0	.6	12.5	100.0	1715
TOT	203	372	2284	2040	691	149	24	12.8		5763
PCT	3.5	6.5	39.6	35.4	12.0	2.6	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.2	.3	*		2.8
NE	2.8	.8	1.0	.4		3.1
E	6.7	3.3	3.4	2.8		3.4
SE	2.7	1.4	2.3	1.8		4.4
S	3.6	2.1	3.2	1.8		4.1
SW	7.5	5.3	7.0	4.0		4.2
W	8.5	6.2	8.4	3.6		4.1
NW	1.5	.3	.9	.1		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.8	.6	.5	.3		2.6
TOT OBS	599	325	431	239	1594	3.9
TOT PCT	37.6	20.4	27.0	15.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 TOTAL OBS
N	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.8
NE	.0	*	.1	.2	.4	.4	.1	.0	.0	.0	4.0
E	.1	*	.3	.8	1.8	1.4	.4	.1	.0	.1	13.3
SE	.0	.0	.1	1.1	1.1	.9	.3	.0	.0	.0	4.7
S	.1	.0	.2	.8	1.1	1.0	.2	.1	.1	.0	7.1
SW	*	.0	.4	1.5	3.0	2.0	.8	*	*	.4	15.6
W	.0	.1	.4	1.9	2.9	2.2	.7	*	.1	.0	18.5
NW	.0	.0	.0	*	.3	.2	.0	.0	.0	.0	2.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.1	.1	.1	.1	.0	.0	.1	.0	2.7
TOT OBS	3	2	25	104	172	132	40	4	5	7	1100
TOT PCT	.2	.1	1.6	6.5	10.8	8.3	2.5	.3	.3	.4	69.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	.7	.7	.7	.7	.7	.7	.7
>5000	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3500	2.9	3.3	3.4	3.4	3.4	3.4	3.4	3.4
>2000	9.3	11.4	11.7	11.7	11.7	11.7	11.7	11.7
>1000	17.3	21.5	22.3	22.3	22.4	22.4	22.4	22.4
>600	21.6	27.6	28.8	28.8	28.9	28.9	28.9	28.9
>300	22.1	28.5	30.2	30.2	30.2	30.3	30.3	30.3
>150	22.1	28.6	30.2	30.2	30.3	30.4	30.4	30.4
>0	22.2	28.6	30.3	30.3	30.4	30.5	30.5	30.6
TOTAL	365	471	498	498	500	502	502	503

TOTAL NUMBER OF OBS: 1645

PCT FREQ NH <5/8: 69.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.8	18.8	14.4	10.3	7.9	5.3	7.1	7.3	11.9	.2	1790

PERIOD: (PRIMARY) 1973-1973
(OVER-ALL) 1955-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.1	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	*	.1	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	*	*	.0	*	.0	*	*	.0	.0	.1	
	NO PCP	.0	.0	*	*	.0	.0	.0	*	.0	.1	.2	
	TOT %	.0	*	.1	*	*	.0	*	.1	.0	.1	.4	
1<2	PCP	.0	.0	*	.0	.0	*	.1	.0	.0	.0	.2	
	NO PCP	.0	*	.2	.0	*	.1	.4	*	.0	.0	.8	
	TOT %	.0	*	.3	.0	*	.1	.5	*	.0	.0	1.0	
2<5	PCP	.0	.0	.1	.1	*	.3	.2	*	.0	.0	.8	
	NO PCP	.0	.1	.2	*	.1	.3	.7	.1	.0	*	1.5	
	TOT %	.0	.1	.3	.1	.2	.6	.9	.1	.0	*	2.3	
5<10	PCP	*	.1	.1	.2	.1	.7	.5	*	.0	.0	1.7	
	NO PCP	.2	1.1	3.6	2.0	1.5	4.6	4.2	.8	.0	.7	18.7	
	TOT %	.3	1.2	3.7	2.2	1.6	5.3	4.7	.9	.0	.7	20.4	
10+	PCP	.0	.0	.1	.2	.2	.3	.3	.0	.0	.0	1.2	
	NO PCP	.7	4.3	13.9	6.3	8.3	17.3	19.5	2.1	.0	2.2	74.5	
	TOT %	.7	4.3	14.0	6.5	8.4	17.7	19.9	2.1	.0	2.2	75.7	
TOT OBS													2153
TOT PCT		1.0	5.6	18.4	8.9	10.3	23.7	26.0	3.1	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	*	.1	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.1	.0	*	.1	.1	.0	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	.0	*	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.1	*	*	.0	*	.1	.0	.1	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	*	.1	.1	.0	.0	.0	.4	
	11-21	.0	*	.1	*	.0	.2	*	*	.0	.0	.3	
	22+	.0	.0	.0	*	*	.1	.2	*	.0	.0	.3	
	TOT %	.0	*	.2	.1	*	.1	.4	*	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	.3	
	4-10	.0	.1	.1	.2	.1	.2	.3	*	.0	.0	.9	
	11-21	.0	*	.2	.1	*	.2	.2	.0	.0	.0	.8	
	22+	.0	.1	.1	.0	*	.2	.2	.1	.0	.0	.6	
	TOT %	.0	.2	.4	.3	.2	.6	.8	.1	.0	.1	2.6	
5<10	0-3	.1	.1	.2	.1	.2	.3	.1	.1	.0	.6	1.6	
	4-10	.1	.4	1.0	1.1	.9	1.7	1.9	.6	.0	.0	7.8	
	11-21	*	.6	1.9	.6	.3	1.8	1.6	.3	.0	.0	7.0	
	22+	*	.2	.7	.2	.1	1.0	1.1	.1	.0	.0	3.4	
	TOT %	.3	1.2	3.8	2.0	1.5	4.8	4.7	1.0	.0	.6	19.8	
10+	0-3	.1	.3	.3	.5	.8	1.1	.4	.2	.0	2.5	6.2	
	4-10	.3	1.3	4.8	4.4	5.4	7.2	6.0	1.2	.0	.0	30.6	
	11-21	.1	2.1	8.5	2.2	1.9	6.8	8.6	.7	.0	.0	30.9	
	22+	*	.5	1.5	.1	.2	2.0	3.7	.1	.0	.0	8.3	
	TOT %	.6	4.1	15.1	7.2	8.2	17.1	18.7	2.2	.0	2.5	75.9	
TOT OBS													2796
TOT PCT		.9	5.5	19.6	9.7	10.0	22.8	24.7	3.4	.0	3.3	100.0	

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	070 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.5	.0	.5	7.5	10.7	9.2	3.0	.2	.2	.0	31.9	68.1	401
06009	.2	.5	2.1	5.2	10.4	9.7	2.1	.2	.2	.7	31.5	68.5	422
12015	.0	.0	.9	4.1	8.4	4.9	1.5	.0	.2	.6	20.6	79.4	465
18021	.0	.0	2.3	8.3	11.5	8.3	2.9	.5	.5	.2	34.5	65.5	444
TOT	3	2	25	108	177	138	41	4	5	7	510	1222	1732
PCT	.2	.1	1.4	6.2	10.2	8.0	2.4	.2	.3	.4	29.4	70.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	.2	.8	1.3	18.2	79.0	632
06009	.3	.9	.9	3.5	19.9	74.6	684
12015	.1	.1	.9	2.4	16.1	80.4	703
18021	.3	.2	1.2	2.9	24.0	71.4	864
TOT	10	10	27	74	571	2191	2883
PCT	.3	.3	.9	2.6	19.8	76.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.5	1.3	9.9	23.3	66.8	374
06009	.3	2.8	10.0	23.8	66.3	400
12015	.0	1.1	6.5	15.5	78.0	445
18021	.0	1.9	11.5	24.2	64.3	426
TOT	3	29	155	354	1136	1645
PCT	.2	1.8	9.4	21.5	69.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
80/84	.0	.0	.0	.1	.3	.2	.1	.0	12	.7
75/79	.0	.0	.1	.6	1.9	3.0	2.0	.8	143	8.3
70/74	.0	.0	.2	1.3	8.6	16.6	16.1	8.4	881	51.2
65/69	.0	.0	.3	2.2	6.2	10.9	10.5	6.3	627	36.5
60/64	.0	.0	.0	.1	.7	.6	1.0	.6	51	3.0
55/59	.0	.0	.0	.0	.1	.1	.1	.1	5	.3
TOTAL	0	0	10	74	308	538	512	278	1720	100.0
PCT	.0	.0	.6	4.3	17.9	31.3	29.8	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.1	.0	.2	.1	.1	.1	.1	.1	.0	.1
.4	.6	2.0	.9	.9	1.9	1.4	.2	.0	.3
.2	3.1	9.4	5.2	5.4	10.7	13.9	1.6	.0	1.5
.2	1.9	6.4	3.2	3.4	9.3	10.0	.9	.0	1.0
.2	.1	.5	.2	.1	.8	.9	.1	.0	.1
.0	.0	.0	.0	.0	.2	.1	.0	.0	.0
.9	5.7	18.5	9.6	10.0	23.0	26.4	3.0	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	76	74	69	64	61	54	68.8	1184
06009	84	81	77	71	65	62	57	71.2	1542
12015	86	80	78	72	66	63	58	71.9	1242
18021	87	77	75	70	64	61	57	69.8	1687
TOT	87	80	76	70	64	61	54	70.4	5655

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.9	12.6	27.3	33.3	24.9	81	421
06009	.0	5.6	17.4	31.3	30.4	15.3	77	425
12015	.0	8.6	26.0	36.6	21.5	7.3	74	465
18021	.0	2.5	14.5	28.8	34.7	19.5	80	476
TOT	0	84	317	555	534	297	78	1787

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.2	.3	.1	12	.0	.6
9/10	.0	.0	.0	.0	*	.2	.3	.1	.0	16	.0	.8
7/8	.0	.0	.0	.0	.3	.7	.7	.1	.0	37	.0	1.8
6	.0	.0	.0	.1	.2	.6	.3	.0	.0	26	*	1.2
5	.0	.0	.0	.1	.6	1.2	.4	.0	.0	48	*	2.3
4	.0	.0	.0	.2	1.6	1.8	.4	.1	.0	86	*	4.2
3	.0	.0	.1	.6	2.1	2.7	.1	.0	.0	116	.1	5.6
2	.0	.0	.0	1.0	3.5	3.0	.1	*	.0	157	.1	7.6
1	.0	.0	.0	2.4	6.5	2.4	.3	.0	.0	235	.1	11.4
0	.0	.0	.4	3.4	9.3	2.7	.2	.0	.0	326	.3	15.7
-1	.0	*	.2	3.4	8.3	1.6	.3	.0	.0	282	.1	13.7
-2	.0	.0	.4	4.2	4.5	1.3	.2	.0	.0	215	.1	10.4
-3	.0	.0	.2	2.8	3.1	.7	.0	.0	.0	140	.0	6.9
-4	.0	*	.5	2.6	2.1	.8	.0	.0	.0	126	*	6.1
-5	.0	.1	.4	2.0	1.8	.1	.0	.0	.0	88	*	4.3
-6	.0	*	.2	.6	.8	*	.0	.0	.0	37	.0	1.8
-7/-8	.0	.1	.3	1.4	.6	.1	.0	.0	.0	52	.0	2.5
-9/-10	.0	*	.3	.6	.3	.0	.0	.0	.0	27	.0	1.3
-11/-13	*	*	.2	.1	*	.0	.0	.0	.0	10	.0	.5
-14/-16	.0	.0	*	*	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	10	70	524	930	411	16	2	2	2040	23	2017
PCT	*	.5	3.4	25.7	45.6	20.1	3.7	.8	.1	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	*	.0	.0	.0	.0	*
1-2	.1	.1	.0	.0	.0	.0	.2	.0	.9	.1	.0	.0	.0	1.0
3-4	.0	.1	.0	.0	.0	.0	.1	.0	.2	1.0	.0	.0	.0	1.3
5-6	.0	.0	.1	.1	.0	.0	.2	.0	.2	1.0	.1	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.1	.0	.3	.1	.0	.0	.5
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.4	.1	.2	.0	.0	.7	.1	1.3	2.6	.6	.0	.0	4.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.2	.3	.0	.0	.0	.0	.5
1-2	.2	2.6	.8	.0	.0	.0	3.6	.0	2.8	.3	.0	.0	.0	3.0
3-4	.0	2.2	2.9	.2	.0	.0	5.2	.1	1.4	1.1	.1	.0	.0	2.8
5-6	.0	.1	3.8	.5	.0	.0	4.4	.0	.3	.8	.0	.0	.0	1.1
7	.0	.1	2.0	.9	.0	.0	2.9	.0	.1	.3	.1	.0	.0	.5
8-9	.0	.1	.3	.3	.0	.0	.7	.0	.0	.0	.1	.2	.0	.3
10-11	.0	.0	.5	.1	.0	.0	.6	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.5	10.3	2.2	.0	.0	18.4	.3	4.9	2.6	.5	.2	.0	8.4

PERIOD: (OVER-ALL) 1963-1973

JANUARY

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7	.7	.9	.0	.0	.0	.0	1.6
1-2	.3	4.4	.5	.0	.0	.0	5.2	.9	4.1	1.3	.0	.0	.0	6.3
3-4	.1	1.5	1.1	.2	.0	.0	2.9	*	2.4	2.5	.4	.0	.0	5.4
5-6	.0	.5	.5	.0	.0	.0	.9	.0	.5	3.7	.7	.0	.0	4.9
7	.0	.2	.1	.0	.1	.0	.4	.0	.1	1.0	.5	.2	.0	1.7
8-9	.0	.1	.2	.0	.0	.0	.3	.0	.0	.8	.7	.1	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.4	.2	.0	.6
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.2	2.4	.2	.1	.0	10.4	1.7	8.1	9.4	3.1	.7	.0	22.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.8	.0	.0	.0	.0	.9	.2	.0	.0	.0	.0	.0	.2	
1-2	.5	4.5	1.3	.0	.0	.0	6.3	*	.8	.2	.0	.0	.0	1.1	
3-4	.0	2.0	3.4	.5	.0	.0	5.8	.0	.1	.6	.0	.0	.0	.6	
5-6	.0	.7	4.6	1.3	.0	.0	6.6	.0	.2	.1	.0	.0	.0	.3	
7	.0	.4	2.3	.9	.4	.0	4.0	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.6	.6	.2	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.2	1.0	.4	.0	1.6	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.1	.5	.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.6	.2	.0	.8	.0	.0	.0	.0	*	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.1	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	8.3	12.6	5.4	1.5	.0	28.4	.2	1.1	1.3	.1	*	.0	2.7	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.4	3.4	.0	.0	.0	.0	9.8	
1-2	2.6	19.9	4.3	.0	.0	.0	26.9	
3-4	.4	9.6	12.2	1.3	.0	.0	23.5	
5-6	.0	2.4	14.3	2.4	.0	.0	19.2	
7	.1	.9	6.2	2.4	.7	.0	10.3	
8-9	.0	.2	1.8	2.0	.4	.0	4.4	
10-11	.0	.0	.9	1.6	.6	.0	3.1	
12	.0	.0	.2	1.0	.1	.0	1.2	
13-16	.0	.0	.0	.8	.4	.0	1.2	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.1	.1	.1	.0	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.4	36.3	40.0	11.9	2.4	.0	100.0	1128

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.6	2.8	4.8	4.9	3.6	2.2	.8	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	299	5
6-7	.0	.6	2.5	5.0	5.7	3.0	2.9	2.2	1.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	340	7
8-9	.1	.5	1.2	3.0	5.3	3.8	4.2	1.8	1.8	.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	330	9
10-11	.0	.2	.8	.8	2.4	1.9	1.9	1.5	1.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	168	9
12-13	.0	.0	.6	.8	.7	.8	1.2	.6	1.2	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	100	10
13	.0	.0	.0	.3	.5	.6	.8	.1	.6	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	49	11
INDET	1.3	.6	1.4	3.2	2.1	1.0	.7	.3	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	165	6
TOTAL	29	66	166	261	294	194	181	98	106	28	21	5	2	0	0	0	0	0	0	0	1451	8
PCT	2.0	4.5	11.4	18.0	20.3	13.4	12.5	6.8	7.3	1.9	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1874-1973
(OVER-ALL) 1855-1973

FEBRUARY

AREA 0020 PORT ELIZABETH
34.4S 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	3.6	.0	1.8	.0	.0	.0	.0	5.4	2.7	1.8	2.7	.0	3.6	.0	83.9
NE	.0	.2	.5	.0	.0	.0	.0	.7	.2	2.8	3.2	.0	4.8	.0	88.3
E	.8	.2	.7	.0	.0	.0	.0	1.7	.8	.3	2.3	.0	3.0	.0	92.0
SE	1.5	2.0	1.0	.0	.0	.0	.0	4.5	3.7	.0	1.8	.5	2.7	.0	86.9
S	.5	1.5	1.2	.0	.0	.0	.0	3.3	3.5	.0	1.1	.0	1.6	.0	90.5
SW	1.8	2.9	2.4	.0	.0	.0	.0	6.8	3.5	.3	3.3	.0	1.1	.3	84.7
W	1.8	2.3	1.3	.0	.0	.0	.0	5.5	5.6	1.5	2.4	.0	2.5	.2	82.7
NW	1.8	4.0	3.6	.0	.0	.0	.0	9.3	1.3	.9	7.1	.0	2.7	.0	78.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8	.0	1.9	.0	.0	.0	.0	5.7	.0	1.9	9.4	.0	1.9	.0	81.1
TOT PCT	1.4	1.7	1.4	.0	.0	.0	.0	4.5	3.1	.8	2.8	.1	2.4	.1	86.4
TOT OBS:	1843														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0000Z	1.6	2.4	2.4	.0	.0	.0	.0	6.4	3.1	1.4	2.1	.2	1.2	.2	85.6
0600Z	1.8	2.0	1.0	.0	.0	.0	.0	4.7	3.7	.2	3.0	.0	2.6	.0	85.8
1201Z	.4	1.8	1.2	.0	.0	.0	.0	3.4	2.4	.0	2.6	.0	2.8	.2	88.7
1802Z	1.7	1.3	1.3	.0	.0	.0	.0	4.2	3.2	1.5	3.2	.0	2.5	.0	85.6
TOT PCT	1.4	1.8	1.4	.0	.0	.0	.0	4.6	3.1	.7	2.7	.1	2.3	.1	86.5
TOT OBS:	1895														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	1.0	.4	.1	*	.0		1.8	9.8		2.2	2.3	2.9	2.5	.8	.4	.7	3.0
NE	.5	2.0	2.5	1.1	.1	.0		6.2	13.9		4.6	7.7	8.4	8.0	3.7	3.9	4.8	8.2
E	1.2	7.2	10.2	2.9	.4	*		21.9	13.9		21.9	20.7	21.1	19.2	21.5	22.1	24.1	23.6
SE	1.2	6.3	4.0	.7	.1	*		12.3	10.4		12.5	10.4	9.5	12.8	11.2	16.8	14.6	10.7
S	1.1	4.9	3.2	.8	.1	*		10.2	10.8		10.9	10.3	7.8	9.2	11.3	11.9	11.6	8.6
SW	1.2	6.9	6.3	2.6	.7	*		17.7	13.7		19.4	15.0	14.2	14.8	21.3	21.4	20.7	15.1
W	1.2	7.2	8.2	3.6	1.0	.2		21.4	15.4		20.4	21.2	25.1	22.1	24.3	18.4	18.0	21.4
NW	.4	2.2	1.1	.4	.2	*		4.3	12.3		3.5	6.0	5.9	6.9	2.0	3.1	2.5	4.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9							4.3	.0		4.7	6.4	5.1	4.4	3.8	2.1	3.1	5.0
TOT OBS	550	1814	1737	592	123	19	4835		12.7		425	597	790	563	577	475	505	503
TOT PCT	11.4	37.5	35.9	12.2	2.5	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.8	.8	.2	.1	.0		1.8	9.8	2.3	2.8	.6	1.5	
NE	1.4	2.5	1.9	.4	*		6.2	13.9	6.4	8.3	3.8	6.0	
E	4.1	9.6	6.9	1.2	*		21.9	13.9	21.2	20.3	21.8	23.9	
SE	3.8	6.5	1.7	.2	*		12.3	10.4	11.3	10.9	13.7	13.2	
S	3.6	4.4	1.7	.3	*		10.2	10.8	10.5	8.4	11.5	10.6	
SW	4.1	7.8	4.2	1.2	.3		17.7	13.7	10.8	14.4	21.3	18.7	
W	4.3	8.5	6.0	2.1	.5		21.4	15.4	20.8	23.8	21.6	19.2	
NW	1.4	1.7	.8	.2	.1		4.3	12.3	5.0	6.3	2.5	3.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.3						4.3	.0	5.7	4.8	3.0	3.8	
TOT OBS	1343	2028	1133	280	51	4835		12.7	1022	1353	1052	1408	
TOT PCT	27.8	41.9	23.4	5.8	1.1		100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1974-1973
(OVER-ALL) 1955-1973AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.7	7.5	38.5	34.1	11.1	2.5	.6	12.3	100.0	1022	
06009	4.8	8.4	36.7	33.6	13.1	2.7	.7	12.7	100.0	1353	
12015	3.0	6.0	36.2	39.4	12.7	2.5	.2	13.1	100.0	1052	
18021	3.8	6.3	38.6	36.9	11.9	2.5	.1	12.7	100.0	1408	
TOT	208	342	1814	1737	592	123	.19	12.7		4835	
PCT	4.3	7.1	37.5	35.9	12.2	2.5	.4	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.3	.5	.2		3.9
NE	3.5	.7	1.0	.6		2.8
E	10.8	2.9	4.5	2.9		3.1
SE	3.4	1.9	2.9	1.7		4.1
S	2.4	2.2	3.6	2.2		4.7
SW	5.7	4.4	7.0	4.4		4.7
W	8.3	4.7	7.6	4.5		4.3
NW	1.0	.4	.9	.4		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.2	.4	.4		3.4
TOT OBS	500	239	384	234	1357	4.0
TOT PCT	36.8	17.6	28.3	17.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.1	.3	.1	.0	.0	.0	.0	1.0	
NE	.1	.0	.1	.2	.7	.4	.1	.0	.0	.0	4.2	
E	.1	.0	.2	1.1	3.0	1.0	.3	.1	.0	.1	15.2	
SE	.0	.1	.1	.8	1.7	.9	.1	.1	.1	.1	6.1	
S	.0	.1	.1	.6	2.0	.9	.1	.1	.1	.0	6.3	
SW	.1	.0	.3	2.3	3.4	2.1	.7	.0	.2	.1	12.4	
W	.1	.1	.2	2.1	3.3	2.5	.8	.0	.1	.2	15.8	
NW	.1	.0	.1	.3	.1	.1	.2	.0	.0	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.4	.0	.0	.0	.0	.0	1.5	
TOT OBS	6	2	17	104	201	108	31	3	5	8	872	1357
TOT PCT	.4	.1	1.3	7.7	14.8	8.0	2.3	.2	.4	.6	64.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.7	.9	.9	.9	.9	.9	.9	.9
>4000	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>3500	2.9	3.2	3.5	3.5	3.5	3.5	3.5	3.5
>3000	9.5	10.7	11.3	11.3	11.3	11.3	11.3	11.3
>2500	20.9	25.1	26.1	26.1	26.1	26.1	26.1	26.1
>2000	25.3	31.4	33.6	33.7	33.7	33.7	33.7	33.7
>1500	26.1	32.5	34.8	34.9	34.9	34.9	34.9	34.9
>1000	26.2	32.6	34.9	35.0	35.0	35.0	35.1	35.1
>500	26.3	32.8	35.1	35.2	35.2	35.3	35.5	35.5
TOTAL	364	454	486	487	487	489	491	492

TOTAL NUMBER OF OBS: 1385

PCT FREQ NH <5/8 64.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	17.4	17.3	12.4	9.2	7.7	6.0	7.8	8.1	13.8	.4	1473

PERIOD: (PRIMARY) 1874-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.1	.0	.0	.1	.0	.0	.0	.2	
	NO PCP	*	.1	.1	.1	*	.1	.2	.1	.0	.0	.7	
	TOT %	*	.1	.2	.1	*	.1	.2	.1	.0	.0	.9	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	.0	.0	.3	.1	.0	.1	.1	.0	.0	.2	.8	
	TOT %	.0	.0	.3	.1	.0	.1	.1	.0	.0	.2	.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.0	.3	.3	.1	.1	.1	.1	.1	.0	.1	1.0	
	TOT %	.0	.3	.3	.1	.1	.1	.1	.2	.0	.1	1.1	
2<5	PCP	.0	.0	.1	*	.1	.3	.2	.1	.0	.0	.8	
	NO PCP	.1	*	.1	.3	.1	.4	.4	.1	.0	.1	1.7	
	TOT %	.1	*	.2	.4	.2	.8	.7	.1	.0	.1	2.5	
5<10	PCP	.1	*	.1	.3	.1	.6	.8	.1	.0	.1	2.2	
	NO PCP	.4	1.3	3.8	1.8	1.7	4.6	5.2	.7	.0	.8	20.3	
	TOT %	.4	1.3	3.9	2.0	1.8	5.2	6.1	.8	.0	.9	22.5	
10+	PCP	.0	.0	.1	.1	.1	.5	.3	.1	.0	.0	1.1	
	NO PCP	.9	4.2	15.5	7.9	7.7	14.5	16.9	1.8	.0	1.6	71.0	
	TOT %	.9	4.2	15.6	7.9	7.9	15.0	17.1	1.8	.0	1.6	72.2	
TOT OBS													
TOT PCT													
		1.5	5.9	20.5	10.7	10.0	21.2	24.3	3.1	.0	2.9	100.0	1840

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	.1	.1	.1	.0	*	.2	.1	.0		.6	
	11-21	.0	.0	.0	*	*	.0	.1	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	.1	.1	.1	*	*	.2	.1	.0	.1	.8	
1/2<1	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.1	.1	.0	.1	.1	.0	.0		.4	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.2	.1	.0	.1	.1	.0	.0	.2	.6	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	*	.0	*	.1	*	.1	.1	.0		.3	
	11-21	.0	.1	.1	*	.0	*	.1	.1	.0		.4	
	22+	.0	*	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.2	.1	.1	.1	.1	.1	.0	*	.9	
2<5	0-3	.0	.0	*	*	.0	.0	.1	.0	.0	.1	.3	
	4-10	*	*	.1	.2	.1	.3	.3	.1	.0		1.2	
	11-21	.0	*	.2	.1	.1	.3	.2	.1	.0		.8	
	22+	.0	.0	.0	.0	*	.2	.1	.1	.0		.4	
	TOT %	*	.1	.3	.3	.2	.8	.8	.2	.0	.1	2.8	
5<10	0-3	*	.1	.2	.2	.1	.3	.2	.1	.0	.8	2.1	
	4-10	.2	.4	1.5	1.0	.7	1.4	1.9	.6	.0		7.8	
	11-21	.1	.5	1.9	.6	.7	1.7	1.9	.2	.0		7.5	
	22+	.0	.1	.6	.1	.2	1.1	1.6	.1	.0		3.7	
	TOT %	.3	1.3	4.1	1.8	1.7	4.5	5.6	1.0	.0	.8	21.1	
10+	0-3	.1	.2	.9	.8	.8	.8	.5	.0	.0	2.5	6.7	
	4-10	.5	1.2	5.1	4.5	4.2	5.9	5.1	1.6	.0		28.1	
	11-21	.2	2.3	8.1	2.7	2.6	5.9	8.1	.5	.0		30.3	
	22+	.1	.5	2.0	.2	.2	2.1	3.2	.1	.0		8.6	
	TOT %	.8	4.2	16.1	8.2	7.9	14.8	16.9	2.2	.0	2.5	73.7	
TOT OBS													
TOT PCT													
		1.2	5.9	21.1	10.6	9.9	20.3	23.8	3.5	.0	3.7	100.0	2487

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PERIOD: (PRIMARY) 1874-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.9	.0	.3	11.0	12.8	5.7	1.8	.3	.0	.9	33.7	66.3	335
06009	.5	.3	1.1	6.8	14.4	11.4	3.3	.5	.0	.3	38.5	61.5	369
12015	.2	.0	.7	5.5	11.7	4.7	2.5	.0	.7	.7	26.9	73.1	402
18021	.0	.3	2.7	6.7	19.1	8.8	1.2	.0	.6	.3	39.8	60.2	329
TOT	6	2	17	106	206	109	32	3	5	8	494	941	1435
PCT	.4	.1	1.2	7.4	14.4	7.6	2.2	.2	.3	.6	34.4	65.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.7	.7	.4	2.0	19.5	76.8	564
06009	1.4	.5	1.4	2.0	20.3	74.4	636
12015	.6	.3	.9	3.9	18.5	75.7	633
18021	.6	1.0	.8	3.0	26.0	68.6	707
TOT	21	16	23	70	540	1870	2540
PCT	.8	.6	.9	2.8	21.3	73.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	.9	1.3	13.4	21.9	64.7	320
06009	.6	2.0	10.1	29.9	60.1	358
12015	.3	1.0	9.3	19.0	71.7	389
18021	.0	3.5	11.9	30.2	57.9	318
TOT	6	26	153	347	885	1365
PCT	.4	1.9	11.0	25.1	63.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
85/89	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
80/84	.0	.0	.0	.0	.7	.3	.3	.2	21	1.4
75/79	.0	.0	.0	.2	.8	3.9	2.2	.5	116	7.6
70/74	.0	.0	.0	.5	7.3	12.0	15.0	11.4	707	46.2
65/69	.0	.0	.0	2.0	6.9	11.6	10.3	8.4	600	39.2
60/64	.0	.0	.0	.1	1.0	1.0	1.5	1.4	77	5.0
55/59	.0	.0	.0	.0	.2	.0	.0	.4	9	.6
TOTAL	0	0	0	45	259	439	447	341	1531	100.0
PCT	.0	.0	.0	2.9	16.9	28.7	29.2	22.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.0	.1	.0	.0	.0	.0
80/84	.0	.1	.1	.2	.1	.3	.1	.0	.2
75/79	.1	.9	1.8	.8	1.0	1.5	.0	.0	.5
70/74	.8	2.3	12.1	4.7	3.4	9.4	11.4	.9	1.2
65/69	.3	1.9	6.0	3.8	4.5	9.3	10.7	1.7	.0
60/64	.1	.3	.3	.6	1.0	1.7	1.0	.2	.0
55/59	.0	.0	.0	.1	.1	.3	.0	.0	.0
TOTAL	1.4	5.5	20.2	10.1	10.2	21.6	25.2	2.9	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	83	77	75	69	63	59	58	68.8	1003
06009	87	81	78	71	64	61	58	70.8	1326
12015	86	81	78	72	66	63	57	72.0	1037
18021	85	78	75	70	64	61	57	69.7	1378
TOT	87	80	77	70	64	61	57	70.3	4744

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	3.0	11.9	24.4	29.4	31.3	82	361		
06009	.0	2.5	16.4	27.7	32.8	20.6	80	408		
12015	.0	5.1	25.6	31.4	26.8	11.1	76	414		
18021	.0	1.3	12.8	31.0	27.4	27.4	81	390		
TOT	0	47	266	452	458	350	80	1573		

PERIOD: (PRIMARY) 1874-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
11/13	.0	.0	.0	.1	.2	.2	.1	.0	10	.0	.6
9/10	.0	.0	.1	.0	.1	.3	.2	.0	11	.0	.6
7/8	.0	.2	.1	.2	.4	.4	.2	.0	27	.1	1.5
6	.0	.0	.0	.1	.7	.3	.0	.0	19	.1	1.1
5	.0	.1	.2	.9	1.2	.5	.0	.0	50	.1	2.8
4	.1	.0	.5	1.1	1.7	.4	.0	.0	65	.1	3.8
3	.1	.1	.5	1.4	2.3	.2	.1	.0	78	.2	4.3
2	.0	.4	1.4	3.5	2.2	.3	.1	.0	134	.2	7.6
1	.0	.1	1.9	5.7	3.3	.2	.0	.0	191	.4	10.8
0	.1	.3	3.1	8.6	2.6	.2	.1	.0	253	.6	14.3
-1	.0	.4	3.5	6.3	1.2	.1	.0	.0	196	.3	11.2
-2	.1	.5	4.6	4.9	1.5	.1	.0	.0	198	.4	11.3
-3	.0	.2	3.0	3.6	.8	.2	.0	.0	134	.1	7.8
-4	.1	.6	3.0	2.3	.4	.1	.0	.0	110	.1	6.3
-5	.0	.4	1.8	1.3	.2	.0	.0	.0	61	.0	3.6
-6	.0	.5	1.4	.8	.2	.0	.0	.0	50	.0	2.9
-7/-8	.1	1.2	1.4	.9	.1	.0	.0	.0	64	.0	3.8
-9/-10	.2	.2	.7	.7	.2	.0	.0	.0	35	.0	2.1
-11/-13	.1	.2	.3	.1	.0	.0	.0	.0	12	.0	.7
-14/-16	.0	.1	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	14	94	468	726	329	58	13	1	1703	4.4	1659
PCT	.8	5.5	27.5	42.6	19.3	3.4	.8	.1	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.1	.0	.0	.0	.0	.2	.3	.3	.0	.0	.0	.0	.0	.0	.3
1-2	.0	.6	.1	.0	.0	.0	.7	.7	.7	.2	.0	.0	.0	.0	.0	.9
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.2	1.2	.3	.0	.0	.0	.0	1.7
5-6	.0	.0	.2	.1	.0	.0	.3	.0	.0	1.1	.2	.0	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.9	.5	.1	.0	.0	1.5	.3	.9	2.9	.8	.0	.0	.0	.0	4.9

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	.8	.0	.0	.0	.0	1.3	.1	.6	.0	.0	.0	.0	.0	.0	.7
1-2	.5	3.3	.9	.0	.0	.0	4.7	.2	2.4	.9	.0	.0	.0	.0	.0	3.5
3-4	.1	1.7	4.0	.4	.0	.0	6.1	.1	1.3	1.8	.0	.0	.0	.0	.0	3.2
5-6	.0	.0	3.9	.5	.0	.0	4.5	.1	.0	1.0	.0	.0	.0	.0	.0	1.7
7	.0	.1	1.6	1.1	.0	.0	2.9	.0	.0	.2	.1	.0	.0	.0	.0	.2
8-9	.0	.0	.5	.6	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.9	11.0	2.7	.1	.0	20.8	.6	4.9	3.9	.1	.0	.0	.0	.0	9.4

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.5	.1	.0	.0	.0		.9	.4	.6	.1	.0	.0	.0		1.1
1-2	.2	2.2	.2	.0	.0	.0		2.7	.5	4.1	.8	.0	.0	.0		5.4
3-4	.0	2.0	1.5	.0	.0	.0		3.5	.0	1.8	3.6	.4	.0	.0		5.7
5-6	.0	.3	1.2	.1	.0	.0		1.6	.0	.2	2.5	1.2	.0	.0		3.9
7	.0	.1	.3	.2	.0	.0		.6	.0	.1	1.3	.9	.1	.0		2.5
8-9	.0	.2	.1	.1	.0	.0		.4	.0	.1	.6	.7	.2	.0		1.5
10-11	.0	.0	.0	.1	.0	.0		.1	.0	.0	.6	.1	.0	.0		.7
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.2	.1	.0		.4
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.1	.0	.0		.3
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	5.3	3.4	.5	.0	.0		9.7	.9	6.8	9.0	4.1	.7	.0		21.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.4	.8	.1	.0	.0	.0		1.3	.0	.5	.0	.0	.0	.0		.5	
1-2	.2	3.2	1.6	.0	.0	.0		5.0	.0	1.0	.1	.0	.0	.0		1.2	
3-4	.0	1.0	3.9	1.3	.0	.0		6.1	.0	.7	.2	.0	.0	.0		.9	
5-6	.0	.4	4.2	.9	.1	.0		5.6	.0	.1	.1	.0	.0	.0		.2	
7	.0	.0	2.1	1.7	.2	.0		4.0	.0	.0	.2	.0	.0	.0		.2	
8-9	.0	.0	.6	1.6	.1	.0		2.3	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	1.1	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.5	.2	.0		.7	.0	.0	.0	.1	.0	.0		.1	
13-16	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.6	5.3	12.5	7.4	.7	.0		26.5	.0	2.3	.6	.2	.0	.0		3.1	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.9	3.9	.3	.0	.0	.0	9.1	
1-2	2.1	17.7	4.8	.0	.0	.0	24.5	
3-4	.2	8.8	16.0	2.4	.0	.0	27.4	
5-6	.2	1.5	14.2	2.9	.1	.0	19.0	
7	.0	.3	5.9	4.0	.3	.0	10.5	
8-9	.0	.2	1.8	3.0	.3	.0	5.4	
10-11	.0	.0	.0	1.8	.1	.0	2.0	
12	.0	.0	.1	.8	.4	.0	1.3	
13-16	.0	.0	.0	.1	.2	.0	.4	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.4	32.5	43.1	15.5	1.5	.0	100.0	921

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	4.3	6.4	5.8	4.3	1.3	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	288	5
6-7	.0	.4	3.4	5.2	5.2	3.2	3.3	1.7	.8	.2	.2	.1	.2	.0	.0	.0	.0	.0	.0	285	7
8-9	.0	.3	1.3	3.2	4.1	3.3	3.4	1.3	2.9	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	251	9
10-11	.0	.3	.5	.9	1.3	1.8	1.8	.9	2.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	127	10
12-13	.0	.0	.6	.8	1.5	.3	.9	.8	1.9	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	93	10
>13	.0	.0	.0	.2	.3	.4	.3	.8	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	32	11
INDET	1.1	.5	1.2	1.8	1.4	.8	2.0	.4	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	7
TOTAL	22	69	160	214	218	134	149	75	112	24	11	5	4	0	0	0	0	0	0	1197	7
PCT	1.8	5.8	13.4	17.9	18.2	11.2	12.4	6.3	9.4	2.0	.9	.4	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1973-1973
(OVER-ALL) 1853-1973

MARCH

AREA 0020 PORT ELIZABETH
34.4S 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
N	5.2	.0	2.6	.0	.0	.0	.0	7.7	2.6	9.0	10.3	.0	2.6	.0	70.3	
NE	2.1	2.0	.5	.0	.0	.0	.0	4.6	.7	4.6	2.0	.2	2.0	.0	86.1	
E	1.3	.6	.5	.0	.0	.0	.0	2.4	.7	2.7	1.8	.3	1.0	.0	91.1	
SE	3.6	2.4	1.5	.0	.0	.0	.0	7.4	.1	1.7	2.0	.0	.6	.0	88.2	
S	2.9	2.3	.9	.0	.0	.0	.0	6.1	3.3	.5	3.2	.0	.4	.0	86.5	
SW	4.2	3.3	.7	.0	.0	.0	.0	8.3	3.7	1.2	2.5	.0	1.3	.0	83.3	
W	1.8	2.6	2.2	.0	.0	.0	.0	6.6	2.7	1.9	4.7	.7	.9	.0	82.6	
NW	.0	1.9	.7	.0	.0	.0	.0	2.6	.7	2.2	7.1	.0	5.2	.0	82.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	1.5	1.5	.0	.0	.0	.0	4.5	.0	6.1	24.2	.0	.0	.0	66.7	
TOT PCT	2.3	1.9	1.2	.0	.0	.0	.0	5.4	1.7	2.4	3.7	.2	1.1	.0	85.6	
TOT OBS:	2036															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	3.0	2.3	2.1	.0	.0	.0	.0	7.4	1.1	4.0	3.4	.0	1.1	.0	83.2
06009	1.4	2.0	1.6	.0	.0	.0	.0	5.1	2.2	.7	5.8	.0	1.4	.0	84.8
12015	2.7	1.3	.5	.0	.0	.0	.0	4.3	2.2	.2	4.5	.7	1.1	.0	87.2
18021	2.0	1.9	.7	.0	.0	.0	.0	4.5	1.3	4.6	3.0	.4	.7	.0	85.7
TOT PCT	2.3	1.8	1.2	.0	.0	.0	.0	5.2	1.7	2.3	4.2	.3	1.1	.0	85.3
TOT OBS:	2118														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	1.6	.5	.1	*	.0		2.7	8.4		2.1	4.9	3.3	3.0	1.2	1.4	2.4	2.7
NE	.4	2.2	3.1	1.5	.1	*		7.4	15.0		8.0	9.0	10.4	7.8	4.5	4.6	5.9	8.3
E	1.6	7.5	10.4	4.6	.6	.1		24.8	14.8		28.7	22.6	23.8	20.4	27.0	24.0	26.7	25.8
SE	.9	5.0	4.3	1.0	.2	*		11.4	11.9		11.2	11.0	10.2	11.1	10.1	13.9	12.1	11.6
S	1.4	4.5	2.8	.6	.1	.1		9.5	10.5		10.2	7.0	7.9	8.4	11.1	12.8	11.4	7.3
SW	1.1	5.7	4.6	1.7	.5	.1		13.8	13.5		12.0	11.0	10.0	14.2	17.7	18.3	15.9	11.1
W	1.3	8.0	7.0	3.3	.8	.3		20.7	14.6		18.8	20.3	22.5	24.2	22.3	18.7	18.2	20.8
NW	.6	2.9	1.5	.5	.2	.0		5.6	11.2		3.7	8.0	7.6	7.7	3.0	4.1	3.4	7.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		5.1	6.3	4.4	3.0	3.1	2.3	4.0	5.2
TOT OBS	656	2059	1879	736	132	34	5496		12.9		474	688	872	697	588	572	1043	562
TOT PCT	11.9	37.5	34.2	13.4	2.4	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.4	.9	.4	*	.0		2.7	8.4	3.7	3.2	1.3	2.5
NE	1.3	2.9	2.6	.6	.1		7.4	15.0	8.6	9.2	4.6	6.7
E	4.3	10.3	8.1	1.9	.2		24.8	14.8	25.1	22.3	25.5	26.4
SE	3.0	5.5	2.5	.2	.1		11.4	11.9	11.1	10.6	12.0	11.9
S	3.6	4.2	1.4	.2	.1		9.5	10.5	8.3	8.1	12.0	9.9
SW	3.5	5.9	3.1	1.0	.3		13.8	13.5	11.4	11.9	18.0	14.3
W	4.7	8.5	5.3	1.6	.6		20.7	14.6	19.7	23.3	20.5	19.1
NW	2.1	2.3	.8	.3	.1		5.6	11.2	6.2	7.6	3.5	4.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.1						4.1	.0				
TOT OBS	1545	2221	1329	317	84	5496		12.9	1162	1569	1100	1005
TOT PCT	28.1	40.4	24.2	5.8	1.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

MARCH

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	5.8	7.9	38.8	31.4	12.8	2.1	.7	12.4	100.0	1162
0600	3.8	8.5	35.8	34.2	14.2	2.7	.8	13.2	100.0	1569
1200	2.7	7.5	38.6	35.1	13.4	2.4	.3	12.9	100.0	1160
1800	4.4	7.2	37.3	35.1	13.0	2.4	.6	12.8	100.0	1605
TOT	228	428	2059	1879	736	132	34	12.9		5496
PCT	4.1	7.8	37.5	34.2	13.4	2.4	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.3	.3	.3		3.6
NE	4.1	1.3	1.2	.6		2.8
E	15.5	4.4	7.1	3.2		3.1
SE	3.1	2.2	2.8	2.8		4.6
S	2.2	1.9	3.2	2.7		4.9
SW	4.0	2.6	3.8	7.8		4.5
W	6.5	3.9	6.3	4.0		4.3
NW	.7	.5	1.0	.4		4.4
VAR	.0	.0	.0	.0		.0
CALM	2.3	.3	.5	.4		2.6
TOT OBS	565	253	379	248	1445	3.9
TOT PCT	39.1	17.5	26.2	17.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 HGT	TOTAL OBS
.0	.0	.1	.1	.0	.3	.1	.0	.0	.0		1.1	
.1	.0	.0	.2	.4	.2	.3	.0	.0	.0		6.0	
.2	.1	.3	.9	3.3	1.4	.7	.3	.0	.3		23.3	
*	.1	.4	1.6	1.3	.9	.7	.1	.0	.1		6.2	
.1	.0	.2	.9	2.3	.8	.3	.1	.0	.0		5.3	
.1	.0	.2	1.2	1.7	.9	.4	.1	.*	.0		8.5	
.1	.1	.4	1.6	2.7	1.5	.9	.0	.3	.1		13.1	
.1	.0	.0	.1	.6	.1	.1	.0	.0	.*		1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
.1	.0	.1	.1	.3	.1	.1	.1	.0	.0		2.6	
12	4	24	95	182	89	39	9	5	9		977	1445
.8	.3	1.7	6.6	12.6	6.2	2.7	.6	.3	.6		67.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
>6500	.7	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.2	1.5	1.6	1.6	1.6	1.6	1.6	1.6	
>3500	3.1	4.1	4.3	4.3	4.3	4.3	4.3	4.3	
>2000	7.7	9.9	10.3	10.4	10.4	10.4	10.4	10.4	
>1000	16.2	21.9	22.7	22.7	22.7	22.8	22.9	22.9	
>600	19.9	28.3	29.2	29.3	29.3	29.4	29.5	29.5	
>300	20.6	29.8	30.8	30.9	30.9	31.0	31.1	31.1	
>150	20.7	30.0	31.1	31.2	31.2	31.2	31.4	31.4	
>0	20.8	30.0	31.2	31.4	31.4	31.6	32.2	32.3	
TOTAL	313	452	470	472	472	476	484	486	

TOTAL NUMBER OF OBS: 1505

PCT FREQ NH <5/8 67.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.5	18.8	12.7	11.2	5.7	5.7	6.7	7.1	12.7	.7	1603

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	*	*	.2	.0	.1	.1	.3	*	.0	.5	1.3	
	TOT %	*	*	.2	.0	.1	.1	.3	*	.0	.5	1.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	*	.0	.0	*	.1	.1	.1	.0	.0	.3	
	TOT %	.0	*	.0	.0	*	.1	.1	.1	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.3	.1	*	.1	*	*	.0	.1	.9	
	TOT %	.1	.1	.3	.1	*	.1	*	*	.0	.1	.9	
2<5	PCP	.0	.1	*	.1	.1	.1	.1	.0	.0	.0	.6	
	NO PCP	*	*	.4	.1	.2	.2	.4	.1	.0	.1	1.5	
	TOT %	*	.1	.4	.2	.3	.3	.5	.1	.0	.1	2.1	
5<10	PCP	.1	.2	.5	.5	.3	.6	.9	.1	.0	.1	3.3	
	NO PCP	.8	1.9	5.8	2.3	1.5	2.6	4.8	1.3	.0	.5	21.5	
	TOT %	1.0	2.1	6.2	2.8	1.8	3.2	5.7	1.4	.0	.6	24.9	
10+	PCP	.0	*	.2	.1	.2	.3	.4	*	.0	.0	1.3	
	NO PCP	.8	5.0	21.3	7.6	7.5	9.3	14.0	1.7	.0	1.9	69.1	
	TOT %	.8	5.1	21.5	7.8	7.7	9.6	14.4	1.7	.0	1.9	70.4	
TOT OBS													
TOT PCT													
		1.9	7.5	28.7	10.9	10.0	13.4	21.1	3.3	.0	3.2	100.0	2030

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.1	.0	.0	.0	.1	*	.0	.6	.9	
	4-10	.0	.0	.2	*	.1	.1	.2	.1	.0	.0	.7	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	.3	*	.1	.1	.3	.1	.0	.6	1.7	
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.1	
	4-10	.0	*	.0	.0	.0	*	*	*	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	.1	.1	*	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.0	.0	*	.1	.1	.1	.0	*	.4	
1<2	0-3	.0	*	.0	.0	.0	*	.0	.0	.0	.1	.2	
	4-10	.1	.1	.2	.1	*	.0	.1	.1	.0	.0	.6	
	11-21	.0	.0	.1	*	.0	.1	*	.0	.0	.0	.2	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.4	.1	*	.1	.1	.1	.0	.1	1.1	
2<5	0-3	*	*	.0	.0	.2	*	.1	*	.0	.2	.5	
	4-10	*	.1	.2	.1	.1	.2	.3	.1	.0	.0	1.2	
	11-21	.0	.0	.3	.2	.1	.2	.2	.1	.0	.0	1.0	
	22+	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.3	
	TOT %	.1	.2	.6	.3	.3	.5	.7	.2	.0	.2	2.9	
5<10	0-3	.1	.1	.4	.2	.3	.2	.2	.2	.0	.8	2.5	
	4-10	.5	.6	1.6	1.2	.8	1.2	1.7	.7	.0	.0	8.2	
	11-21	.2	1.1	2.6	1.2	.5	1.3	2.3	.4	.0	.0	9.6	
	22+	.1	.4	1.1	.2	.1	.3	.9	*	.0	.0	3.1	
	TOT %	.9	2.1	5.6	2.8	1.8	3.0	5.1	1.3	.0	.8	23.4	
10+	0-3	.1	.1	.6	.6	1.0	.7	.7	.2	.0	2.4	6.4	
	4-10	.6	1.8	6.1	4.0	3.5	4.5	6.8	1.2	.0	.0	28.5	
	11-21	.1	2.0	9.6	2.9	2.2	3.6	5.4	.6	.0	.0	26.4	
	22+	*	1.1	4.4	.4	.3	.8	2.1	*	.0	.0	9.2	
	TOT %	.8	5.0	20.7	7.8	7.0	9.7	15.1	2.0	.0	2.4	70.5	
TOT OBS													
TOT PCT													
		1.9	7.5	27.7	11.0	9.3	13.5	21.4	3.7	.0	4.1	100.0	2635

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.6	.3	1.7	8.7	11.7	8.1	2.5	1.1	.6	.6	35.8	64.2	358
06009	1.3	.5	1.3	8.4	14.6	8.6	3.7	.5	.0	1.3	40.2	59.8	383
12015	.9	.2	2.1	4.3	8.2	4.1	1.6	.7	.5	.7	23.2	76.8	439
18021	.8	.0	1.3	4.7	13.9	3.4	2.6	.0	.3	.0	27.1	72.9	380
TOT	14	4	25	100	187	93	40	9	5	10	487	1073	1560
PCT	.9	.3	1.6	6.4	12.0	6.0	2.6	.6	.3	.6	31.2	68.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.5	.3	.7	1.0	24.9	70.6	999
06009	2.9	.4	1.7	3.6	25.7	65.7	697
12015	1.2	.8	1.2	2.7	21.4	72.8	665
18021	1.6	.1	.5	3.7	21.9	72.1	757
TOT	55	11	28	77	636	1911	2718
PCT	2.0	.4	1.0	2.8	23.4	70.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.1	4.0	13.8	24.4	61.9	349
06009	1.9	3.8	14.3	28.6	57.1	364
12015	.9	3.6	10.2	15.4	74.4	422
18021	.8	2.2	7.8	20.5	71.6	370
TOT	18	51	172	330	1003	1505
PCT	1.2	3.4	11.4	21.9	66.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.1	.0	.0	.2	.1	.1	.1	10	.0
75/79	.0	.0	.0	.1	.9	1.7	1.5	.8	85	5.1
70/74	.0	.0	.3	.4	2.9	7.4	14.1	9.9	587	35.0
65/69	.0	.0	.1	1.5	4.9	13.3	15.9	13.3	823	49.0
60/64	.0	.0	.0	.2	.9	1.2	3.0	4.6	167	10.0
55/59	.0	.0	.0	.0	.1	.1	.1	.1	6	.4
TOTAL	0	1	4	37	167	399	584	484	1678	100.0
PCT	.0	.1	.4	2.2	10.0	23.8	34.8	28.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.1	*	.1	.0	.1	.1	.2	.0	.0	.0
75/79	.2	.7	1.3	.3	.4	.7	1.1	.1	.0	.2
70/74	.6	3.0	10.2	3.8	3.3	5.1	7.0	.9	.0	1.2
65/69	.6	3.1	15.5	5.7	4.7	6.5	10.3	1.3	.0	1.4
60/64	.4	.6	1.8	.8	1.3	1.2	2.7	.4	.0	.7
55/59	*	*	.1	.1	.0	.1	.1	.0	.0	.0
TOTAL	2.0	7.3	29.0	10.7	9.8	13.6	21.3	2.8	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	76	74	68	62	59	57	67.8	1155
06009	86	80	77	69	63	60	56	69.7	1552
12015	84	80	77	70	64	61	57	70.5	1152
18021	86	77	74	68	62	59	57	68.6	1593
TOT	86	79	76	69	63	60	56	69.1	5452

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.5	4.7	18.0	37.5	38.3	85	405		
06009	.0	3.4	10.2	21.7	32.3	32.5	83	443		
12015	.0	4.2	16.6	30.0	32.8	16.4	78	457		
18021	.0	.9	7.4	23.2	37.7	30.8	83	448		
TOT	0	44	173	410	614	512	82	1753		

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	85	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
14/16	.0	.0	.0	.1	.2	.0	.1	.0	6	.1	.3
11/13	.0	.1	.1	.1	.2	.2	.1	.0	12	.1	.6
9/10	.0	.1	.1	.4	.2	.3	.2	.1	23	.0	1.2
7/8	.0	.1	.3	.7	.6	.3	.0	.0	36	.1	1.8
6	.0	.0	.5	.8	.6	.2	.0	.0	38	.0	2.0
5	.0	.3	.5	.8	1.0	.4	.0	.0	56	.1	2.8
4	.1	.5	1.2	1.6	.9	.1	.2	.0	88	.2	4.3
3	.0	.2	2.2	2.2	1.4	.2	.0	.0	121	.2	6.1
2	.1	1.0	2.7	5.2	1.2	.1	.1	.0	201	.3	10.0
1	.0	.9	3.9	5.7	1.2	.1	.0	.0	230	.7	11.1
0	.3	1.4	6.8	7.0	1.1	.2	.0	.0	325	.9	15.9
-1	.1	.5	4.8	4.4	1.3	.1	.0	.0	217	.5	10.7
-2	.1	1.1	4.1	3.1	.8	.1	.0	.0	178	.6	8.6
-3	.0	.6	3.1	1.5	.8	.1	.0	.0	117	.3	5.7
-4	.0	.7	2.2	1.5	.5	.1	.0	.0	98	.0	5.0
-5	.1	.8	.8	.8	.3	.1	.0	.0	53	.2	2.5
-6	.1	.4	1.0	.5	.2	.0	.0	.0	43	.0	2.2
-7/-8	.1	.8	.7	1.0	.0	.0	.0	.0	50	.0	2.6
-9/-10	.2	.4	.7	.3	.0	.0	.0	.0	31	.0	1.6
-11/-13	.1	.3	.2	.2	.0	.0	.0	.0	15	.0	.8
-14/-16	.0	.2	.0	.0	.0	.0	.0	.0	3	.1	.1
TOTAL	19		698		239		11		1942	.81	1861
PCT	1.0	10.2	35.9	37.7	12.3	2.3	.6	.1	100.0	4.2	95.8

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.4	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.6	.0	.0	.0	.0	.6	.1	1.1	.4	.0	.0	.0	1.6
3-4	.0	.1	.0	.1	.0	.0	.2	.0	.7	1.4	.1	.0	.0	2.2
5-6	.0	.0	.2	.1	.0	.0	.3	.0	.1	.5	.7	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.5	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	*	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.1	.2	.2	.0	.0	1.7	.1	2.2	2.4	1.8	.1	*	6.7

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.4	1.5	.0	.0	.0	.0	1.9	.2	1.4	.1	.0	.0	.0	1.7
1-2	.6	3.4	1.1	.0	.0	.0	5.2	.4	4.4	1.0	.0	.0	.0	5.7
3-4	.0	3.0	3.6	.6	.0	.0	7.1	.0	.9	1.1	.1	.0	.0	2.1
5-6	.0	.6	5.3	1.7	.1	.0	7.8	.0	.7	1.1	.1	.0	.0	1.9
7	.0	.1	1.6	2.2	.0	.2	4.1	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.7	1.5	.6	.1	2.9	.0	.0	*	.1	.0	.0	.1
10-11	.0	.0	.1	.5	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.1	.0	.3	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.6	12.7	6.7	1.1	.3	30.3	.6	7.2	3.9	.4	.0	.0	12.1

PERIOD: (OVER-ALL) 1963-1973

MARCH

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	1.3	.1	.0	.0	.0		1.9	.2	.7	.1	.0	.0	.0		1.0
1-2	.7	2.7	.7	.0	.0	.0		4.0	.2	2.9	.7	.0	.0	.0		3.8
3-4	.0	.8	.8	.0	.0	.0		1.6	.0	1.0	2.6	.1	.0	.0		3.7
5-6	.0	.5	1.1	.2	.0	.0		1.7	.0	.2	2.0	.5	.0	.0		2.7
7	.0	.0	.6	.2	.0	.0		.8	.0	.1	.5	.1	.0	.0		.6
8-9	.0	.0	.3	.0	.0	.0		.3	.0	.0	.3	.1	.0	.0		.3
10-11	.0	.0	.1	.0	.0	.0		.1	.0	.0	.2	.2	.0	.0		.4
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.2	.0	.0		.2
13-16	.0	.0	.0	.2	.0	.0		.2	.0	.0	.1	.0	.1	.0		.2
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.2	5.3	3.5	.7	.0	.0		10.7	.4	4.9	6.5	1.1	.3	.0		13.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.8	.1	.0	.0	.0		1.0	.1	.1	.0	.0	.0	.0		.1	
1-2	.8	3.3	.6	.0	.0	.0		4.7	.1	.9	.0	.0	.0	.0		.9	
3-4	.0	1.6	3.5	.5	.0	.0		5.6	.0	.3	.1	.0	.0	.0		.4	
5-6	.0	.6	2.9	.7	.0	.0		4.1	.0	.0	.3	.0	.0	.0		.3	
7	.0	.0	.7	.8	.0	.0		1.4	.0	.0	.1	.0	.0	.0		.1	
8-9	.0	.0	.3	.3	.1	.0		.6	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.1	.5	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.0	6.3	8.0	3.3	.3	.0		18.9	.1	1.2	.5	.0	.0	.0		1.8	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	6.5	.4	.0	.0	.0	14.7	
1-2	4.0	19.0	4.2	.0	.0	.0	27.1	
3-4	.1	8.0	12.7	1.4	.0	.0	22.2	
5-6	.0	2.5	12.9	3.9	.1	.0	19.3	
7	.0	.3	3.9	3.7	.0	.2	8.0	
8-9	.0	.0	1.4	2.0	.8	.1	4.3	
10-11	.0	.0	.4	1.3	.1	.0	1.7	
12	.0	.0	.4	.7	.1	.0	1.2	
13-16	.0	.0	.1	.6	.3	.0	1.0	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	36.3	36.2	13.6	1.6	.3	100.0	1035

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	4.2	7.6	7.0	3.8	1.7	.7	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	349	5
6-7	.0	.6	2.9	6.4	6.3	4.1	3.2	1.6	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	351	7
8-9	.0	.2	1.3	3.0	4.3	3.1	3.0	1.7	1.8	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	250	8
10-11	.0	.5	.3	.9	1.9	1.7	1.5	.9	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	114	8
12-13	.0	.0	.5	.2	.6	1.3	1.1	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	9
>13	.0	.0	.0	.0	.8	.2	.2	.2	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	23	11
INDET	1.8	1.0	2.7	2.6	1.4	.7	1.0	.2	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	162	15
TOTAL	36	85	201	264	252	168	139	73	69	20	2	3	1	0	0	0	0	0	0	1313	7
PCT	2.7	6.5	15.3	20.1	19.2	12.8	10.6	5.6	5.3	1.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	2.4	.0	.0	.0	.0	.0	.0	2.4	.0	1.8	6.1	.0	1.8	.0	87.8		
NE	3.2	.0	1.1	.0	.0	.0	.0	4.3	.9	5.2	3.6	.0	1.2	.0	84.8		
E	.6	1.0	1.2	.0	.0	.0	.0	2.6	.5	3.9	2.1	.0	1.7	.0	89.1		
SE	2.6	4.9	1.5	.0	.0	.0	.0	8.8	1.8	1.5	.0	.0	.3	.0	87.6		
S	4.5	4.1	.9	.0	.0	.0	.0	9.5	7.3	.0	.5	.0	1.6	.0	81.2		
SW	2.0	3.8	1.7	.0	.0	.0	.0	7.5	3.0	2.2	2.3	.0	.5	.1	84.7		
W	3.5	2.1	1.7	.0	.0	.0	.0	7.1	3.7	2.6	2.6	.3	1.1	.2	82.5		
NW	4.2	2.9	.2	.0	.0	.0	.0	7.3	2.5	7.9	1.7	.0	1.0	.2	79.3		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.4	1.4	2.8	.0	.0	.0	.0	5.6	1.4	4.2	9.9	1.4	5.6	.0	71.8		
TOT PCT	2.7	2.3	1.4	.0	.0	.0	.0	6.2	2.6	3.1	2.5	.2	1.3	.1	84.1		
TOT OBS:	1875																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
0000	2.1	2.1	1.8	.0	.0	.0	.0	6.0	3.5	6.0	1.8	.2	.5	.0	82.0		
0600	3.9	2.4	.9	.0	.0	.0	.0	7.1	2.8	1.3	4.5	.2	1.3	.2	82.7		
1200	2.4	1.8	2.0	.0	.0	.0	.0	5.7	7.0	.0	2.4	.2	2.2	.0	87.6		
1800	2.3	2.7	.8	.0	.0	.0	.0	5.7	2.3	5.7	2.1	.2	1.1	.2	82.8		
TOT PCT	2.6	2.2	1.3	.0	.0	.0	.0	6.1	2.6	3.2	2.7	.2	1.3	.1	83.9		
TOT OBS:	1932																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47							00	03	06	09	12	15	18	21
N	.6	2.0	1.1	.3	*	*	*		4.0	9.7		2.5	4.9	5.0	6.0	2.7	2.3	2.1	6.2
NE	.7	3.4	3.3	1.2	.3	*	*		8.9	13.2		7.6	9.1	9.7	9.8	5.4	9.0	8.2	12.1
E	1.1	6.3	7.3	2.1	.3	*	*		17.2	13.3		18.5	17.4	14.9	12.2	17.2	21.2	19.4	
SE	.8	3.2	2.4	.7	.1	.0	*		7.2	11.4		7.7	5.7	4.7	5.8	8.2	9.0	10.2	6.5
S	.9	2.3	1.4	.8	.2	*	*		5.6	12.0		7.2	4.9	5.1	4.6	4.6	8.0	6.7	4.7
SW	1.1	4.9	4.1	2.1	.9	.3	*		13.4	15.7		13.3	11.6	11.1	13.8	14.6	16.9	15.1	10.4
W	1.2	8.3	10.0	6.4	2.9	.6	*		29.4	18.2		30.1	27.7	32.5	33.1	32.4	26.3	26.8	24.3
NW	.8	3.9	2.5	1.3	.7	.3	*		9.5	15.5		6.8	12.1	12.5	11.2	9.6	6.8	5.4	10.7
VAR	.0	.0	.0	.0	.0	.0	*		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8								4.8	.0		6.3	6.6	4.4	3.3	4.6	4.4	4.3	5.9
TOT OBS	683	1927	1804	832	300	76	5622		14.3			446	678	814	914	678	522	991	579
TOT PCT	12.1	34.3	32.1	14.8	5.3	1.4	100.0					100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	1.6	1.8	.6	.1	*			4.0	9.7	3.9	5.6	2.5	3.6	
NE	2.3	3.7	2.3	.6	*			8.9	13.2	8.5	9.7	7.0	9.7	
E	3.7	7.9	4.7	.9	*			17.2	13.3	17.8	13.5	17.6	20.5	
SE	2.3	3.3	1.3	.3	*			7.2	11.4	6.5	5.3	8.6	8.8	
S	2.0	2.1	1.2	.3	.1			5.6	12.0	5.8	4.9	6.1	5.9	
SW	3.0	5.3	3.0	1.5	.7			13.4	15.7	12.3	12.6	15.6	13.3	
W	4.7	10.4	8.0	4.6	1.7			29.4	18.2	28.6	32.8	29.8	25.9	
NW	2.5	3.4	1.9	1.1	.5			9.5	15.5	10.0	11.8	8.4	7.3	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	4.8							4.8	.0	6.5	3.8	4.5	4.9	
TOT OBS	1501	2130	1285	532	174	5622		14.3		1124	1728	1200	1570	
TOT PCT	26.7	37.9	22.9	9.5	3.1	100.0				100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

APRIL

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	6.5	8.5	33.9	31.1	14.2	5.2	.6	13.6	100.0	1124	
06609	3.8	6.5	32.6	31.6	16.4	6.6	2.4	15.6	100.0	1728	
12615	4.5	6.9	34.6	34.4	13.8	5.0	.8	14.0	100.0	1200	
18621	4.9	7.8	36.2	31.5	14.2	4.3	1.1	13.5	100.0	1570	
TOT	270	413	1927	1804	832	300	76	14.3		5622	
PCT	4.8	7.3	34.3	32.1	14.8	5.3	1.4		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.3	.5	.2		3.8
NE	3.4	.8	1.4	.9		3.2
E	11.0	2.2	3.9	2.0		2.8
SE	2.1	1.6	1.7	1.8		4.5
S	1.5	1.2	1.5	1.5		4.7
SW	3.8	2.5	4.8	2.8		4.6
W	10.7	6.3	11.7	7.0		4.5
NW	2.0	1.1	1.9	.6		4.0
VAR	.0	.0	.0	.0		.0
CALM	1.8	1.0	.8	.7		3.5
TOT OBS	494	227	379	237	1337	4.0
TOT PCT	36.9	17.0	28.3	17.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.1	.2	.1	.0	.0	.0	.1	1.4	
NE	.1	.0	.1	.4	.5	.3	.1	.0	.1	.1	4.8	
E	.3	.1	.2	.7	1.6	.8	.1	.2	.1	.1	14.9	
SE	.*	.*	.2	.6	1.1	.8	.1	.0	.0	.*	4.4	
S	.0	.1	.0	.9	.7	.3	.1	.1	.0	.1	3.6	
SW	.1	.1	.*	.9	2.8	.7	.5	.1	.1	.1	8.5	
W	.4	.2	1.1	3.1	5.0	3.0	1.1	.5	.2	.3	20.9	
NW	.1	.0	.1	.4	.4	.7	.2	.1	.1	.0	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.1	.6	.1	.0	.1	.1	3.0	
TOT OBS	15	6	23	96	164	97	32	13	11	9	871	1337
TOT PCT	1.1	.4	1.7	7.2	12.3	7.3	2.4	1.0	.8	.7	65.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	1.1	1.4	1.5	1.5	1.5	1.5	1.5	1.5
>5000	1.9	2.3	2.4	2.4	2.4	2.4	2.4	2.4
>3500	3.8	4.6	4.7	4.7	4.7	4.7	4.7	4.7
>2000	8.9	11.8	12.0	12.1	12.1	12.1	12.1	12.1
>1000	17.3	23.3	24.2	24.3	24.3	24.3	24.4	24.4
>600	20.8	30.0	31.4	31.5	31.6	31.6	31.7	31.7
>300	21.2	31.3	33.1	33.3	33.4	33.4	33.4	33.4
>150	21.4	31.5	33.5	33.7	33.8	33.8	33.9	33.9
>0	21.4	31.8	33.9	34.2	34.4	34.7	35.0	35.0
TOTAL	295	438	467	471	473	477	481	481

TOTAL NUMBER OF OBS: 1376

PCT FREQ NH <5/8: 65.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	18.5	16.9	11.7	10.1	7.0	5.2	7.6	8.7	13.3	1.0	1453

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

APRIL

AREA 0020 PORT ELIZABETH
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.0	.0	.2	.0	.0	.1	.3	.1	.0	.2	.7	
	TOT %	.1	.0	.2	.0	.0	.1	.3	.1	.0	.2	.9	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	*	*	.0	.0	*	.1	.0	.1	.0	.0	.3	
	TOT %	*	*	.0	.0	*	.1	.0	.1	.0	.1	.3	
1<2	PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	
	NO PCP	.0	.1	.1	.0	.1	.1	.2	.0	.0	.1	.5	
	TOT %	.0	.1	.1	.0	.2	.1	.3	.0	.0	.1	.7	
2<5	PCP	.0	.0	.2	.1	.0	.2	.6	.2	.0	.1	1.3	
	NO PCP	.1	.0	.2	*	.1	.1	.8	.1	.0	.1	1.4	
	TOT %	.1	.0	.4	.1	.1	.3	1.4	.2	.0	.2	2.7	
5<10	PCP	.0	.2	.2	.5	.2	.5	1.3	.2	.0	.1	3.1	
	NO PCP	.5	1.7	4.8	1.8	1.3	2.4	7.4	1.5	.0	.4	21.9	
	TOT %	.5	1.9	4.9	2.4	1.6	2.9	8.7	1.7	.0	.5	25.0	
10+	PCP	.0	.1	.1	.1	.2	.3	.5	.1	.0	.1	1.5	
	NO PCP	1.6	5.3	13.0	5.6	3.8	9.7	22.8	4.2	.0	2.8	68.9	
	TOT %	1.6	5.5	13.1	5.7	4.0	10.0	23.3	4.4	.0	2.8	70.4	
TOT OBS													
TOT PCT													
		2.2	7.5	18.7	8.2	5.9	13.5	33.9	6.4	.0	3.8	100.0	1875

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.1	.1	.0	*	.2	.1	.0		.4	
	11-21	*	.0	.0	.0	.0	*	*	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0		.1	
	TOT %	*	.0	.1	.1	.0	*	.3	.1	.0	.3	1.0	
1/2<1	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	.0	.0	.1	.1	.1	.0		.2	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0		*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	*	*	.0	.0	*	.1	.1	.1	.0	*	.4	
1<2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	.1	*	.0	.0	.0	*	.0	.0		.1	
	11-21	.0	.0	.1	.0	*	.1	.1	*	.0		.4	
	22+	.0	.0	.1	*	.1	.0	.1	.0	.0		.2	
	TOT %	.0	.1	.2	*	.1	.1	.3	*	.0	*	.8	
2<5	0-3	*	.0	.0	*	*	*	*	.0	.0	.1	.2	
	4-10	.0	.0	.1	.1	.0	.2	.4	.2	.0		1.0	
	11-21	.0	.0	.1	*	*	.1	.4	.1	.0		.8	
	22+	.0	.0	.1	*	*	.1	.5	*	.0		.8	
	TOT %	*	.0	.4	.2	.1	.4	1.3	.3	.0	.1	2.9	
5<10	0-3	*	.2	.2	.2	.1	.1	.2	.1	.0	.8	1.9	
	4-10	.3	.6	1.0	.6	.7	1.0	1.6	.5	.0		6.5	
	11-21	.1	.4	2.1	.9	.6	1.0	3.4	.6	.0		9.1	
	22+	.1	.3	.8	.4	.1	.8	2.7	.2	.0		5.4	
	TOT %	.5	1.6	4.1	2.2	1.5	3.0	7.9	1.4	.0	.8	22.9	
10+	0-3	.4	.7	.7	.4	.4	.9	.9	.4	.0	3.4	8.2	
	4-10	1.0	2.5	5.3	2.7	2.1	3.9	6.6	2.4	.0		26.7	
	11-21	.5	2.2	5.8	2.1	1.0	3.7	10.5	1.5	.0		27.4	
	22+	*	.3	1.2	.3	.3	1.5	5.7	.5	.0		9.7	
	TOT %	1.9	5.7	13.0	5.5	3.8	10.0	23.7	4.9	.0	3.4	72.0	
TOT OBS													
TOT PCT													
		2.6	7.4	17.8	8.0	5.5	13.6	33.5	6.8	.0	4.7	100.0	2506

APRIL

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973AREA 0020 PORT ELIZABETH
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
00003	.6	.3	1.5	5.2	10.3	5.5	2.7	.6	1.8	.6	29.1	70.9	330
06009	1.7	.9	2.0	7.8	14.4	10.3	1.4	1.4	.6	.3	40.8	59.2	348
12015	1.0	.3	1.5	6.4	11.6	8.2	3.1	.3	.5	.5	33.4	66.6	389
18021	.9	.3	1.7	8.9	11.8	4.3	1.7	1.4	.3	1.2	32.6	67.4	347
TOT	15	6	24	100	170	101	32	13	11	9	481	933	1414
PCT	1.1	.4	1.7	7.1	12.0	7.1	2.3	.9	.8	.6	34.0	66.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.4	.2	3.2	20.0	75.6	569
06009	2.0	.7	1.5	2.8	24.3	68.8	606
12015	1.1	.3	.8	3.2	22.6	72.0	633
18021	.7	.4	.8	2.2	24.8	71.1	759
TOT	28	11	21	72	592	1843	2567
PCT	1.1	.4	.8	2.8	23.1	71.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.6	2.8	9.3	21.2	69.5	321
06009	1.8	4.8	14.6	27.7	57.7	336
12015	1.0	2.9	10.7	23.7	65.6	384
18021	.9	3.6	13.7	20.6	65.7	335
TOT	15	48	166	321	889	1376
PCT	1.1	3.5	12.1	23.3	64.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
75/79	.0	.0	.1	.3	.1	.4	.3	.0	16	1.0
70/74	.0	.1	.1	.3	1.6	2.3	4.0	1.9	160	10.2
65/69	.0	.0	.1	1.1	4.0	10.6	15.6	10.0	644	41.3
60/64	.0	.0	.0	1.1	5.3	8.3	14.7	12.2	651	41.7
55/59	.0	.0	.0	.3	.6	1.3	1.3	2.0	85	5.4
50/54	.0	.0	.0	.0	.0	.0	.0	.3	4	.3
TOTAL	0	1	3	46	181	358	560	412	1561	100.0
PCT	.0	.1	.2	2.9	11.6	22.9	35.9	26.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
75	.1	.4	.1	.0	.1	.3	.0	.0	.0	.1
70	.2	1.8	2.9	1.3	.7	1.0	1.9	.3	.0	.2
65	.7	3.7	10.1	3.3	1.9	5.8	12.7	1.9	.0	1.1
60	.7	1.4	5.7	2.7	2.6	5.9	17.2	3.3	.0	2.2
55	.2	.1	.3	.7	.5	.7	1.9	.5	.0	.6
50	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0
TOTAL	1.8	7.2	19.4	8.2	5.7	13.5	34.1	6.0	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	74	72	65	59	57	51	65.2	1123
06009	84	78	75	67	60	57	53	67.0	1704
12015	86	77	75	67	61	57	52	67.5	1195
18021	86	75	72	66	60	58	53	66.1	1561
TOT	86	77	73	66	60	57	51	66.5	5583

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.7	9.1	18.4	37.3	32.5	83	375
06009	.0	2.4	11.5	23.9	35.2	27.0	82	381
12015	.0	4.8	17.4	27.2	33.7	16.9	79	419
18021	.0	2.5	7.9	21.1	37.7	30.8	83	432
TOT	0	50	185	365	578	429	82	1607

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.1	.1	2	.0	.1
11/13	.0	.0	.1	.0	.1	.1	.1	.1	.0	7	.0	.4
9/10	.0	.0	.0	.1	.1	.3	.0	.0	.0	8	.0	.4
7/8	.0	.0	.2	.6	.4	.2	.3	.0	.0	31	.1	1.6
6	.0	.1	.1	.4	.5	.2	.0	.0	.0	22	.0	1.2
5	.0	.1	.7	1.2	.8	.5	.1	.0	.0	60	.0	3.3
4	.0	.1	1.0	1.6	1.2	.1	.0	.0	.0	72	.2	3.8
3	.0	.4	1.7	2.9	.9	.1	.0	.0	.0	108	.2	5.8
2	.0	.5	2.7	3.2	1.8	.2	.0	.0	.0	152	.2	8.3
1	.0	.3	3.7	4.6	1.6	.1	.0	.0	.0	186	.3	10.0
0	.0	.8	5.6	5.2	1.9	.2	.0	.0	.0	248	.3	13.5
-1	.0	.8	5.6	4.4	1.6	.1	.1	.0	.0	225	.3	12.2
-2	.0	.7	3.8	2.9	.9	.1	.0	.0	.0	151	.2	8.1
-3	.0	.7	2.7	1.8	1.1	.2	.0	.0	.0	116	.2	6.3
-4	.0	.9	2.0	1.6	.9	.0	.0	.0	.0	96	.1	5.2
-5	.0	.4	2.3	1.5	.7	.1	.0	.0	.0	90	.2	4.8
-6	.1	.7	1.0	.8	.4	.0	.0	.0	.0	54	.0	3.0
-7/-8	.0	1.2	1.5	1.7	.2	.0	.0	.0	.0	84	.0	4.7
-9/-10	.1	.4	1.5	.8	.0	.0	.0	.0	.0	50	.0	2.8
-11/-13	.1	.3	.5	.4	.1	.0	.0	.0	.0	24	.1	1.3
-14/-16	.2	.2	.3	.1	.0	.0	.0	.0	.0	14	.0	.8
-17/-19	.1	.1	.0	.0	.0	.0	.0	.0	.0	3	.1	.1
TOTAL	9		664		277		10		2	1804	43	1761
PCT	.5	155	36.8	643	15.4	2.3	.6	.1	.1	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	<1	.3	.2	.0	.0	.0	.0	.5
1-2	.0	.5	.2	.0	.0	.0	.7	1-2	.3	1.8	.8	.0	.0	.0	2.9
3-4	.0	.1	.3	.0	.0	.0	.4	3-4	.0	.8	1.1	.2	.0	.0	2.0
5-6	.0	.1	.0	.0	.0	.0	.1	5-6	.0	*	.7	.1	.1	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.3	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.1	*	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	.4	.0	.0	.0	1.5	TOT PCT	.7	2.8	3.1	.4	.1	.0	7.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.1	.0	.0	.0	1.6	<1	.4	.5	.0	.0	.0	.0	.9
1-2	.2	3.9	.7	.0	.0	.0	4.9	1-2	.2	1.7	1.1	.0	.0	.0	3.0
3-4	.0	1.3	3.7	.6	.0	.0	5.6	3-4	.0	.6	1.0	*	.0	.0	1.7
5-6	.0	.3	2.2	.7	.0	.0	3.2	5-6	.0	*	.2	.2	.0	.0	.4
7	.0	.1	1.6	.5	.0	.0	2.3	7	.0	.0	.1	.2	.0	.0	.4
8-9	.0	.0	.2	.4	.0	.0	.6	8-9	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.2	.1	.0	.0	.3	10-11	.0	.1	.1	.0	.0	.0	.2
12	.0	.0	.0	.1	.1	.0	.2	12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.2	.0	.0	.2	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.8	8.8	2.8	.4	.0	19.3	TOT PCT	.6	3.1	2.5	.4	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0	.4	.6	.0	.0	.0	.0	1.1
1-2	.3	1.0	.5	.0	.0	.0	1.8	.0	2.2	.3	.0	.0	.0	2.5
3-4	.0	1.0	.4	.0	.0	.0	1.4	.0	1.8	1.8	*	.0	.0	3.6
5-6	.0	.2	.4	.0	.0	.0	.6	.0	.6	1.8	.1	*	.0	2.5
7	.0	.0	.1	.0	.0	.0	.1	.0	*	.4	.6	.0	.0	1.0
8-9	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.5	.1	.0	.7
10-11	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.6	.1	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.7	.1	.0	.8
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	*	*	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.9	1.4	.1	.2	.0	5.2	.4	5.2	4.6	2.5	.4	.0	13.1

W								NW							TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.5	.7	.1	.0	.0	.0	1.3	.1	.1	.0	.0	.0	.0	.2	
1-2	.0	4.5	2.0	.0	.0	.0	6.5	.0	1.2	.5	.0	.0	.0	1.7	
3-4	.0	2.0	5.3	.6	.0	.0	7.9	.0	.9	.5	.1	.0	.0	1.5	
5-6	.0	.7	5.7	.9	.1	.0	7.4	.0	.1	.5	.1	.0	.0	.7	
7	.0	.2	1.7	2.8	.0	.0	4.6	.0	.0	.2	.1	.0	.0	.3	
8-9	.0	.0	.5	2.1	.2	.0	2.9	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.7	1.1	.8	.0	2.6	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.1	.3	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.2	1.1	.5	.1	1.9	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	*	.0	*	
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	8.0	16.3	9.0	2.6	.1	36.6	.1	2.3	1.7	.8	.1	.0	5.1	94.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.6	4.0	.2	.0	.0	.0	12.7	
1-2	1.4	17.2	5.9	.0	.0	.0	24.5	
3-4	.1	8.3	13.9	1.5	.0	.0	23.9	
5-6	.0	2.0	11.2	2.0	.2	.0	15.5	
7	.0	.3	4.3	4.3	.0	.0	8.9	
8-9	.0	.1	1.1	3.1	.4	.0	4.7	
10-11	.0	.2	1.2	2.1	.9	.0	4.4	
12	.0	.0	.1	.4	.4	.0	1.0	
13-16	.0	.0	.3	1.9	.7	.1	3.1	
17-19	.0	.0	.0	.3	.2	.0	.5	
20-22	.0	.0	.0	.0	.6	.0	.6	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.1	32.2	38.2	15.7	3.7	.1	100.0	935

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	4.1	6.2	5.6	2.9	2.2	1.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	274	5
6-7	.1	.3	3.4	6.8	4.4	3.0	3.3	1.4	1.2	.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	290	8
8-9	.0	.5	1.4	2.6	4.0	2.8	3.6	1.7	3.8	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	248	9
10-11	.0	.3	.7	1.0	1.4	1.4	1.2	.9	2.0	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	110	10
12-13	.0	.0	.2	.4	.7	.7	.5	.1	1.4	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	57	11
>13	.0	.0	.0	.3	.3	.4	.3	.2	.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	28	11
INDET	2.6	.7	1.2	3.0	1.0	1.6	1.0	.3	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	6
TOTAL	45	67	150	228	168	139	128	55	117	29	21	4	1	0	0	0	0	0	0	1152	7
PCT	3.9	5.8	13.0	19.8	14.6	12.1	11.1	4.8	10.2	2.5	1.8	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1872-1972
(OVER-ALL) 1855-1972

MAY

AREA 0020 PORT ELIZABETH
34.45 24.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	2.9	1.2	.9	.0	.0	.0	.0	5.0	.0	2.3	4.7	.0	1.2	.0	86.8	
NE	1.4	.6	.0	.0	.0	.0	.0	2.0	.0	4.3	1.0	.1	2.6	.5	90.2	
E	1.5	.6	1.1	.0	.0	.0	.0	2.9	1.7	2.7	1.1	.3	4.3	.4	86.8	
SE	2.5	2.5	2.5	.0	.0	.0	.0	6.4	7.0	.0	1.3	.0	.0	.0	85.4	
S	5.6	3.8	.6	.0	.0	.0	.0	10.0	3.1	4.7	1.3	.0	.0	.0	80.9	
SW	1.8	1.5	1.5	.0	.0	.0	.0	4.7	3.7	1.8	1.1	.0	.6	.0	88.1	
W	2.1	3.5	1.1	.0	.0	.0	.0	6.4	4.3	1.6	1.0	.1	.9	.0	85.7	
NW	.9	.8	.3	.0	.0	.0	.0	2.0	.6	5.2	1.5	.0	2.0	.0	88.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.0	.0	.0	.0	.0	.0	1.2	.0	3.7	3.7	1.2	3.7	.0	86.4	
TOT PCT	2.0	2.1	1.0	.0	.0	.0	.0	4.8	2.8	2.5	1.4	.2	1.7	.1	86.7	
TOT OBS:	1983															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HJUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	1.9	1.1	.6	.0	.0	.0	.0	3.4	3.2	5.1	.6	.4	.2	.0	87.2
0600	1.3	2.2	.2	.0	.0	.0	.0	3.7	3.5	1.1	2.6	.2	2.4	.0	86.6
1200	2.1	2.3	2.1	.0	.0	.0	.0	6.0	1.5	.0	1.3	.0	3.4	.4	87.4
1800	2.6	2.2	.7	.0	.0	.0	.0	5.4	3.1	4.8	1.3	.0	.4	.0	85.4
TOT PCT	2.0	2.0	.9	.0	.0	.0	.0	4.7	2.8	2.7	1.5	.1	1.6	.1	86.6
TOT OBS:	2086														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	3.3	1.6	.4	.1	.0		6.3	9.8		3.8	8.5	7.5	8.0	4.0	5.4	4.2	8.0
NE	1.0	4.2	3.5	.9	.1	.0		9.7	11.6		9.7	9.9	10.1	8.1	8.3	8.9	10.2	13.4
E	1.2	6.2	4.6	1.6	.2	.0		13.9	12.0		14.1	12.4	13.1	8.2	16.1	17.4	17.0	15.1
SE	.7	2.3	1.4	.3	.3	*		5.0	11.9		5.2	5.1	4.7	3.3	4.2	6.3	6.8	4.3
S	.8	2.2	1.2	.5	.1	*		4.8	11.6		3.2	5.5	4.4	4.7	3.9	5.2	6.5	4.1
SW	1.0	3.7	3.6	2.2	.9	.3		11.7	16.4		12.8	9.3	8.8	12.9	13.5	12.3	14.0	8.9
W	1.5	8.6	10.7	6.8	3.4	1.1		32.2	18.9		36.6	28.9	33.0	34.9	38.1	30.5	28.6	28.1
NW	1.1	4.9	3.2	1.6	.8	.3		12.0	14.9		7.8	14.4	14.7	17.1	9.1	9.4	7.3	13.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0		6.9	6.0	3.9	2.8	2.7	4.5	5.4	5.0
TOT OBS	776	2174	1831	884	371	106	6142		14.3		466	736	918	1054	704	578	1070	616
TOT PCT	12.6	35.4	29.8	14.4	6.0	1.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	2.6	2.7	.8	.2	*			6.3	9.8	6.7	7.8	4.7	5.6
NE	3.0	4.4	2.0	.4	*			9.7	11.6	9.8	9.0	8.5	11.3
E	4.0	6.1	3.2	.6	*			13.9	12.0	13.1	10.5	16.7	16.3
SE	1.8	2.0	.8	.2	.1			5.0	11.9	5.1	3.9	5.1	5.9
S	1.8	1.8	.8	.3	.1			4.8	11.6	4.6	4.6	4.5	5.6
SW	2.7	4.0	2.9	1.3	.7			11.7	16.4	10.7	11.0	13.0	12.2
W	5.1	11.0	8.7	4.9	2.5			32.2	18.9	31.9	34.0	34.7	28.4
NW	3.4	4.5	2.4	1.1	.6			12.0	14.9	11.8	16.0	9.3	9.4
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	6.3	3.3	3.5	5.3
TOT OBS	1770	2239	1320	561	252	6142			14.3	1202	1972	1282	1686
TOT PCT	28.8	36.5	21.5	9.1	4.1			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1972-1972
(OVER-ALL) 1855-1972

MAY

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34.45 24.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
0000	6.3	7.5	39.4	26.2	13.7	5.2	1.7	13.4	1202
0600	3.3	8.4	32.6	30.5	15.8	7.6	1.9	15.4	1972
1200	3.5	7.9	33.5	32.7	14.7	5.9	1.8	14.7	1282
1800	5.3	8.6	37.3	29.4	12.9	5.0	1.5	13.5	1686
TOT	275	501	2174	1831	884	371	106	14.3	6142
PCT	4.3	8.2	35.4	29.8	14.4	6.0	1.7	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.8	.9	.3		3.5
NE	6.0	1.5	1.4	.8		2.4
E	8.2	3.0	2.2	1.4		2.8
SE	1.4	.7	1.0	.7		3.9
S	1.7	.7	1.2	.6		3.7
SW	5.3	2.8	3.8	1.9		3.9
W	12.8	8.2	19.8	5.2		4.2
NW	2.9	1.0	1.2	.8		3.3
VAR	.0	.0	.0	.0		.0
CALM	3.1	.4	.7	.7		2.2
TOT OBS	606	272	364	177	1419	3.6
TOT PCT	42.7	19.2	25.7	12.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 145	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.2	.0	.1	.1	.1	.1	.1	2.8	
NE	.0	.0	.1	.1	.6	.3	.2	.1	.1	.1	8.2	
E	.0	.0	.3	.3	.8	.6	.4	.1	.0	.1	12.3	
SE	.1	.0	.1	.5	.5	.2	.0	.0	.0	.0	2.5	
S	.0	.0	.0	.2	.3	.5	.1	.0	.0	.0	3.1	
SW	.0	.0	.1	1.2	1.6	.7	.2	.1	.0	.2	9.6	
W	.1	.1	.9	3.3	4.8	3.1	.6	.2	.3	.5	26.1	
NW	.0	.0	.1	.1	.7	.4	.1	.1	.0	.1	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	3.8	
TOT OBS	5	1	20	87	134	85	25	7	6	13	1036	1419
TOT PCT	.4	.1	1.4	6.1	9.4	6.0	1.8	.5	.4	.9	73.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	2.5	3.4	3.5	3.5	3.5	3.5	3.5	3.5
= OR >2000	7.2	9.4	9.6	9.6	9.6	9.6	9.6	9.6
= OR >1000	13.4	18.2	18.6	18.7	18.7	18.7	18.7	18.7
= OR >600	17.0	23.7	24.4	24.5	24.5	24.6	24.6	24.6
= OR >300	17.6	24.7	25.7	25.8	25.9	26.0	26.0	26.0
= OR >150	17.6	24.8	25.8	25.9	26.0	26.0	26.0	26.0
= OR >0	17.6	24.8	25.9	26.0	26.1	26.2	26.4	26.4
TOTAL	262	370	386	388	389	391	393	393

TOTAL NUMBER OF OBS: 1491

PCT FREQ NH <5/8 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	8 OBS	TOTAL OBS
	24.3	18.8	11.9	8.8	8.9	5.9	6.5	5.2	9.5	.3	1578

PERIOD: (PRIMARY) 1872-1972
(OVER-ALL) 1855-1972

MAY

AREA 0020 PORT ELIZABETH
34.45 24.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.3
	TOT %	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	NO PCP	.2	.0	.0	.0	.1	*	*	.1	.0	.0	.0	.4
	TOT %	.2	.0	.0	.0	.1	*	.1	.1	.0	.0	.0	.4
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.1	.3	.0	.0	.1	.1	.1	.0	.1	.7	.7
	TOT %	.0	.1	.3	.1	.0	.1	.1	.1	.0	.1	.7	.8
2<5	PCP	.0	.1	.1	.1	.1	.1	.3	.1	.0	.0	.7	.7
	NO PCP	.0	.1	.1	.1	.0	.1	.5	.1	.0	.0	1.0	1.0
	TOT %	.0	.2	.2	.1	.1	.2	.8	.1	.0	.0	1.6	1.6
5<10	PCP	.2	.1	.2	.2	.3	.2	1.3	*	.0	.1	2.6	2.6
	NO PCP	.5	2.1	3.2	.9	.5	2.7	8.2	2.0	.0	.7	20.7	20.7
	TOT %	.8	2.2	3.4	1.1	.8	2.9	9.5	2.0	.0	.7	23.4	23.4
10+	PCP	.0	*	.1	.0	.1	.3	.9	.1	.0	.0	1.4	1.4
	NO PCP	3.4	7.4	10.0	2.6	3.1	9.3	27.3	5.9	.0	3.2	72.2	72.2
	TOT %	3.4	7.4	10.1	2.6	3.1	9.6	28.1	6.0	.0	3.2	73.6	73.6
TOT OBS													
TOT PCT													
		4.3	9.9	14.0	4.0	4.0	12.8	38.7	8.3	.0	4.1	100.0	1982

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.1	.2	.2
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	TOT %	*	.0	.0	*	.0	.0	.1	.0	.0	.1	.3	.3
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.2
	11-21	.0	.0	.0	.0	*	*	.1	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	*	*	.1	.1	.0	.0	.3	.3
1<2	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	*	.1	.1
	4-10	.0	*	*	.0	.0	*	*	.1	.0	.0	.2	.2
	11-21	.0	*	.2	*	.0	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.0	*	*	.0	.0	.1	.1	.0	.0	.3	.3
	TOT %	.0	.1	.2	.1	.0	*	.2	.2	.0	*	.8	.8
2<5	0-3	.0	*	*	.0	.0	*	.1	.0	.0	.1	.2	.2
	4-10	.0	.1	*	.0	*	*	.2	.0	.0	.0	.3	.3
	11-21	.0	*	*	*	.0	.1	.3	*	.0	.0	.5	.5
	22+	*	.0	.1	*	.0	.2	.4	.1	.0	.0	.8	.8
	TOT %	*	.1	.2	.1	*	.4	.9	.1	.0	.1	1.9	1.9
5<10	0-3	.2	.2	.2	.1	*	.1	.4	.2	.0	.8	2.1	2.1
	4-10	.3	.8	1.3	.4	.3	1.0	1.8	.7	.0	.0	6.7	6.7
	11-21	.1	.6	.9	.3	.5	.8	3.3	.7	.0	.0	7.3	7.3
	22+	*	.3	.5	.1	.2	1.0	3.1	.4	.0	.0	5.5	5.5
	TOT %	.7	2.0	2.8	1.0	1.0	2.8	8.6	2.0	.0	.8	21.6	21.6
10+	0-3	.4	.7	.9	.3	.3	.8	.6	.4	.0	3.5	8.0	8.0
	4-10	2.8	3.7	5.0	1.5	2.1	3.1	8.5	4.0	.0	.0	30.8	30.8
	11-21	.7	2.5	2.9	.8	.6	3.8	11.7	2.0	.0	.0	25.1	25.1
	22+	.1	.3	1.1	.1	.3	2.1	6.6	.8	.0	.0	11.3	11.3
	TOT %	4.1	7.3	9.9	2.7	3.3	9.8	27.5	7.1	.0	3.5	75.2	75.2
TOT OBS													
TOT PCT													
		4.9	9.5	13.1	3.8	4.3	13.1	37.3	9.5	.0	4.5	100.0	2601

MAY

PERIOD: (PRIMARY) 1872-1972
(OVER-ALL) 1854-1972AREA 0020 PORT ELIZABETH
34.45 24.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.3	1.3	5.6	11.2	4.3	2.4	1.1	.3	.5	27.1	72.9	376
06009	.5	.0	1.1	7.7	10.6	7.7	2.1	.3	.5	.8	31.4	68.6	376
12015	.2	.0	1.2	4.7	7.5	6.8	1.2	.5	.2	1.2	23.4	76.6	427
18021	.3	.0	1.7	5.2	6.3	4.7	1.1	.0	.6	1.1	20.9	79.1	363
TOT	5	1	20	89	137	91	26	7	6	14	396	1146	1542
PCT	.3	.1	1.3	5.8	8.9	5.9	1.7	.5	.4	.9	25.7	74.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.2	.2	1.0	20.0	78.2	591
06009	.4	.7	1.5	2.2	22.8	72.4	680
12015	.3	.2	.9	2.0	20.8	75.8	648
18021	.1	.3	.6	2.0	22.1	74.8	786
TOT	9	9	22	50	582	2033	2705
PCT	.3	.3	.8	1.8	21.5	75.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	1.9	8.3	19.9	71.8	362
06009	.5	1.9	10.7	22.1	67.2	366
12015	.2	1.5	8.0	16.7	75.3	413
18021	.3	2.0	8.3	14.0	77.7	350
TOT	5	27	131	271	1089	1491
PCT	.3	1.8	8.8	18.2	73.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.1	.1	.1	.1	.0	.0	.0	.0	4	.2
75/79	.0	.1	.2	.1	.0	.2	.0	.0	10	.6
70/74	.0	.1	.2	.5	.8	2.2	2.0	1.0	112	6.7
65/69	.0	.0	.1	1.1	4.8	11.9	14.1	6.5	644	38.5
60/64	.0	.0	.2	1.4	5.9	11.9	16.3	9.9	766	45.8
55/59	.0	.0	.1	.3	1.3	2.2	2.7	1.1	128	7.7
50/54	.0	.0	.0	.0	.0	.2	.1	.1	8	.5
TOTAL	1	3	13	61	216	479	588	311	1672	100.0
PCT	.1	.2	.8	3.6	12.9	28.6	35.2	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1
75/79	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0
70/74	.4	1.5	1.7	.1	.6	.0	1.2	.4	.0	.1
65/69	1.7	4.5	7.7	1.7	1.6	5.1	12.4	2.1	.0	1.6
60/64	1.1	2.7	4.8	2.0	1.8	5.9	21.5	3.5	.0	2.5
55/59	.1	.3	.3	.3	.5	1.5	3.9	.7	.0	.2
50/54	.1	.0	.0	.0	.0	.0	.1	.1	.0	.1
TOTAL	3.8	9.1	14.4	4.1	4.5	13.1	39.4	7.0	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	73	70	64	58	54	47	63.9	1181
06009	81	76	73	63	59	55	48	65.6	1899
12015	83	76	73	66	59	56	49	65.9	1250
18021	79	74	71	64	59	55	51	64.6	1644
TOT	83	75	73	65	59	55	47	65.1	5974

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.2	2.9	8.7	26.3	38.2	23.7	81	414
06009	.0	5.7	9.8	28.5	36.2	19.8	80	439
12015	.0	6.7	18.0	33.6	31.0	10.7	76	449
18021	.0	3.0	13.4	25.8	36.6	21.2	80	462
TOT	1	81	222	504	625	331	79	1764

PERIOD: (PRIMARY) 1872-1972
(OVER-ALL) 1856-1972

MAY

AREA 0020 PORT ELIZABETH
34.45 24.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	3	.0	.2
9/10	.0	.0	.0	.1	.0	.1	.2	.1	.0	8	.0	.4
7/8	.0	.0	.1	.0	.2	.4	.1	.0	.0	13	.0	.7
6	.0	.0	.0	.1	.2	.3	.1	.0	.0	13	.0	.7
5	.0	.0	.0	.2	.7	.6	.2	.0	.0	33	.0	1.8
4	.0	.0	.0	.7	1.1	.5	.0	.1	.0	45	.0	2.4
3	.0	.0	.2	.6	2.8	1.0	.3	.0	.0	91	.1	4.8
2	.0	.1	.3	1.9	4.1	.9	.2	.1	.0	140	.1	7.4
1	.0	.1	.2	2.2	4.8	1.3	.3	.1	.0	167	.1	8.8
0	.0	.0	.4	7.2	4.4	.9	.1	.0	.0	242	.4	12.5
-1	.0	.0	.5	6.1	3.9	.6	.2	.0	.0	211	.1	11.2
-2	.0	.0	1.4	6.6	2.7	1.0	.2	.0	.0	221	.3	11.5
-3	.0	.0	1.4	4.4	2.7	.5	.0	.0	.0	170	.0	9.1
-4	.1	.0	1.5	3.4	2.7	.2	.0	.0	.0	148	.2	7.7
-5	.0	.2	1.3	1.9	2.0	.5	.0	.0	.0	111	.2	5.7
-6	.0	.0	.6	1.6	1.1	.1	.0	.0	.0	65	.0	3.5
-7/-8	.0	.2	1.0	2.1	1.0	.1	.0	.0	.0	83	.1	4.4
-9/-10	.0	.1	1.3	1.4	.7	.0	.0	.0	.0	66	.0	3.5
-11/-13	.0	.1	.5	1.0	.2	.0	.0	.0	.0	33	.0	1.8
-14/-16	.0	.1	.2	.2	.0	.0	.0	.0	.0	9	.0	.5
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	15	207	779	662	170	34	5	2	1875	25	1850
PCT	.1	.8	11.0	41.5	35.3	9.1	1.8	.3	.1	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								NE								PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	
41	.4	.5	.1	.0	.0	.0	1.0	.1	.5	.0	.0	.0	.0	.7	.1	.5	.0
1-2	.2	.9	.0	.0	.0	.0	1.0	.2	2.4	.5	.0	.0	.0	3.2	.2	2.4	.0
3-4	.0	.2	.5	.0	.0	.0	.7	.1	1.3	1.4	.0	.0	.0	2.8	.0	1.3	.0
5-6	.0	.2	.2	.0	.0	.0	.3	.0	.1	.8	.0	.0	.0	.9	.0	.1	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.0	.0	.6	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.7	.8	.0	.0	.0	3.1	.4	4.5	3.2	.5	.1	.0	8.8	.0	.0	.0

HGT	E								SE								PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	
41	.3	.7	.1	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0
1-2	.5	4.7	.8	.0	.0	.0	5.9	.3	1.1	.1	.0	.0	.0	1.5	.0	.0	.0
3-4	.0	2.1	2.7	.2	.0	.0	4.9	.0	.5	1.0	.0	.0	.0	1.5	.0	.0	.0
5-6	.0	.3	1.2	.1	.0	.0	1.6	.0	.1	.4	.1	.0	.0	.7	.0	.0	.0
7	.0	.1	.3	.4	.0	.0	.8	.1	.0	.1	.0	.0	.0	.2	.0	.0	.0
8-9	.0	.0	.2	.6	.0	.0	.8	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	7.7	5.3	1.6	.0	.0	15.4	.5	2.0	1.6	.2	.0	.0	4.3	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA 0020 PORT ELIZABETH
34.45 24.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.6	.0	.0	.0	.0	.8	.6	.3	.0	.0	.0	.0	.0	.0	.9
1-2	.0	1.1	.2	.0	.0	.0	1.4	.3	2.1	.5	.0	.0	.0	.0	.0	2.9
3-4	.0	.5	.1	.0	.0	.0	.6	.0	1.5	1.3	.1	.0	.0	.0	.0	2.8
5-6	.0	.0	.2	.1	.0	.0	.3	.0	.0	1.5	.6	.0	.0	.0	.0	2.1
7	.0	.2	.0	.0	.0	.0	.2	.0	.1	.8	.5	.2	.0	.0	.0	1.6
8-9	.0	.1	.0	.1	.0	.0	.2	.0	.0	.3	.4	.0	.0	.0	.0	.7
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.*	.3	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.2
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.*	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.0	.*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.*	.*	.1	.1
23-25	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.*	.1	.0	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.*	.0	.0	.*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	.3	.3	.0	.1	3.9	.9	4.1	4.6	1.7	.9	.1	.1	12.3	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.4	1.1	.1	.0	.0	.0	1.6	.1	.6	.0	.0	.0	.0	.0	.0	.7	
1-2	.1	5.7	2.3	.0	.0	.0	8.1	.1	2.0	.1	.0	.0	.0	.0	.0	2.1	
3-4	.0	2.6	5.0	.4	.0	.0	8.9	.0	.7	.5	.0	.0	.0	.0	.0	1.3	
5-6	.1	.9	5.3	2.0	.4	.0	8.7	.0	.2	.1	.1	.0	.0	.0	.0	.6	
7	.0	.1	2.0	1.5	.2	.0	3.8	.0	.0	.4	.2	.0	.0	.0	.0	.*	
8-9	.0	.1	.5	2.3	.0	.1	3.0	.0	.0	.0	.*	.0	.0	.0	.0	.*	
10-11	.0	.0	.7	1.1	.3	.2	2.3	.0	.0	.0	.1	.1	.0	.0	.0	.2	
12	.0	.0	.0	.4	.4	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.8	1.0	.2	2.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.1	.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.3	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	10.5	17.0	8.6	4.0	.8	41.4	.2	3.4	1.1	.6	.1	.0	.0	5.4	94.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	9.5	4.6	.3	.0	.0	.0	.0	14.4
1-2	2.6	20.0	4.4	.0	.0	.0	.0	26.9
3-4	.1	8.8	12.9	.6	.0	.0	.0	22.4
5-6	.1	1.7	9.2	2.9	.4	.0	.0	14.3
7	.1	.5	3.6	2.6	.4	.0	.0	7.1
8-9	.1	.3	1.1	3.6	.0	.1	.5	5.2
10-11	.0	.1	.9	1.6	.8	.2	.3	3.6
12	.0	.0	.0	.5	.5	.2	.2	1.2
13-16	.0	.0	.3	1.0	1.0	.2	.5	2.5
17-19	.0	.0	.0	.1	.5	.0	.6	.5
20-22	.0	.0	.0	.0	.3	.2	.5	.5
23-25	.0	.0	.1	.1	.7	.0	.9	.9
26-32	.0	.0	.0	.0	.3	.1	.4	.4
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	12.5	35.9	32.8	12.9	4.9	1.0	100.0	1007

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	3.0	5.8	4.0	2.0	1.1	1.1	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	243
6-7	.0	1.5	3.4	5.3	4.4	3.7	2.4	1.2	2.3	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	330
8-9	.0	.2	1.6	3.7	5.4	3.0	4.2	1.9	2.3	.8	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	308
10-11	.0	.2	.5	2.2	1.2	1.6	1.9	1.7	1.9	.7	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	163
12-13	.0	.0	.6	.5	.7	.5	.9	.5	1.3	.4	.2	.2	.4	.1	.0	.0	.0	.0	.0	.0	81
>13	.0	.0	.0	.3	.3	.6	.2	.2	.3	.3	.2	.2	.3	.1	.0	.0	.0	.0	.0	.0	38
INDET	1.2	.3	1.3	1.6	1.7	1.2	.9	.3	.8	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	122
TOTAL	30	67	171	227	203	150	149	76	119	42	22	15	11	3	0	0	0	0	0	0	1285
PCT	2.3	5.2	13.3	17.7	15.8	11.7	11.6	5.9	9.3	3.3	1.7	1.2	.9	.2	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1874-1972
(OVER-ALL) 1855-1972

JUNE

AREA 0020 PORT ELIZABETH
34.4S 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG PCPN	FGG WD PCPN	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.9	.0	.0	.0	.0	.0	.0	.9	1.2	1.8	1.2	.0	1.6	.0	93.3
NE	.1	.4	.0	.0	.0	.0	.0	.5	.5	.7	1.0	.0	1.2	.0	96.1
E	.4	1.2	.5	.0	.0	.0	.0	2.2	1.1	1.9	1.0	.0	.8	.0	93.0
SE	4.1	6.2	2.1	.0	.0	.0	.0	10.4	4.1	.0	.5	.0	2.6	.0	82.4
S	2.3	4.4	1.2	.0	.0	.0	.0	7.8	9.0	.0	.9	.0	1.2	.0	81.1
SW	2.2	6.9	1.8	.0	.0	.0	.0	10.9	9.5	2.7	.6	.0	.9	.8	74.7
W	3.1	3.8	.8	.0	.0	.0	.0	7.7	3.2	1.5	.4	.0	1.2	.0	86.3
NW	.9	.8	.8	.0	.0	.0	.0	2.9	2.6	2.3	.2	.4	.8	.0	91.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	.0	.0	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	7.5	.0	89.6
TOT PCT	1.9	2.8	.8	.0	.0	.0	*	5.5	3.5	1.6	.6	*	1.3	.1	87.4
TOT OBS:	2038														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG PCPN	FGG WD PCPN	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	3.2	2.7	1.3	.0	.0	.0	.0	7.0	3.2	3.4	.4	.2	.8	.0	85.2
06009	1.4	2.1	.6	.0	.0	.0	.2	4.3	2.3	1.2	.8	.0	1.4	.2	90.3
12015	2.1	3.0	.7	.0	.0	.0	.0	5.7	4.4	.2	.9	.0	1.9	.2	86.8
18021	1.3	3.1	.7	.0	.0	.0	.0	5.1	3.9	1.8	.4	.0	1.1	.0	87.7
TOT PCT	1.9	2.8	.8	.0	.0	.0	*	5.5	3.5	1.6	.6	*	1.3	.1	87.5
TOT OBS:	2106														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15
N	1.4	4.2	3.0	.8	.2	.1		9.6	11.6		9.7	12.3	11.2	10.8	8.4	7.6
NE	1.1	5.3	3.5	1.2	.1	*		11.2	11.3		11.2	12.5	11.8	8.6	8.6	10.4
E	.8	4.2	3.3	1.2	.1	*		9.6	12.0		9.9	9.6	8.5	5.3	8.1	10.9
SE	.2	1.3	1.0	.3	.1	*		2.8	12.8		2.5	2.0	2.0	2.5	2.5	4.0
S	.3	1.5	1.2	.6	.2	*		3.9	14.2		5.1	2.6	4.8	3.6	3.5	3.7
SW	.5	3.5	2.9	2.0	.9	.4		10.2	17.8		9.7	7.8	8.5	9.5	12.4	12.1
W	1.4	9.1	10.5	6.4	3.6	1.9		32.9	19.7		33.9	30.3	32.6	35.6	39.3	32.8
NW	.9	6.1	4.4	2.2	1.2	1.0		15.8	17.0		12.0	19.3	18.4	20.7	14.8	14.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0		5.9	3.5	2.3	3.4	2.4	3.7
TOT OBS	601	2007	1696	842	362	197	5705		15.4		455	637	829	976	760	509
TOT PCT	10.5	35.2	29.7	14.8	6.3	3.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.3	4.0	1.8	.3	.2		9.6	11.6	11.2	11.0	8.1	8.3	
NE	3.8	4.7	2.4	.3	.1		11.2	11.3	12.0	10.1	9.3	13.7	
E	2.9	4.1	2.2	.4	*		9.6	12.0	9.7	6.8	9.2	13.2	
SE	.8	1.1	.7	.2	*		2.8	12.8	2.2	2.3	3.1	3.6	
S	1.2	1.3	.9	.4	.1		3.9	14.2	3.7	4.2	3.5	4.1	
SW	2.0	3.7	2.5	1.2	.8		10.2	17.8	8.6	9.0	12.3	11.1	
W	5.2	12.0	7.7	4.4	3.7		32.9	19.7	31.8	34.2	36.7	29.1	
NW	3.8	5.7	3.3	1.5	1.5		15.8	17.0	16.3	19.6	14.8	11.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.8						3.8	.0	4.5	2.9	2.9	5.3	
TOT OBS	1531	2082	1225	498	369	5705		15.4	1092	1805	1269	1539	
TOT PCT	26.8	36.5	21.5	8.7	6.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1874-1972
(OVER-ALL) 1855-1972

JUNE

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	4.5	6.2	38.0	30.1	13.0	4.9	3.3	14.5	100.0	1092
0600	2.9	6.5	32.4	29.3	15.4	8.8	4.8	17.1	100.0	1805
1200	2.9	6.2	34.6	30.7	15.9	6.5	3.1	15.7	100.0	1269
1800	5.3	7.7	37.0	29.1	14.3	4.4	2.3	13.9	100.0	1539
TOT	219	382	2007	1696	842	362	197	15.4		5705
PCT	3.8	6.7	35.2	29.7	14.8	6.3	3.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.3	.8	1.1	.3		1.7
NE	8.0	1.0	1.4	.4		1.6
E	5.1	2.0	1.6	.5		2.5
SE	1.1	.3	.7	.4		3.5
S	1.3	1.2	1.8	1.3		4.8
SW	3.4	2.1	5.0	2.1		4.5
W	13.1	6.0	11.1	5.1		4.0
NW	6.6	1.3	2.6	1.2		2.9
VAR	.0	.0	.0	.0		.0
CALM	2.7	.2	.6	.1		1.7
TOT OBS	712	222	388	169	1491	3.3
TOT PCT	47.8	14.9	26.0	11.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.0	.3	.1	.1	.0	.2	.0	7.9	
.0	.0	.0	.1	.4	.2	.0	.1	.0	.0	* 10.0	
.0	.0	.0	.2	.3	.4	.1	.1	.0	.1	8.0	
.0	.0	.0	.1	.4	.3	.1	.0	.0	.0	* 1.6	
.0	.0	.1	.7	1.2	.6	.1	.1	.0	.0	2.9	
.1	.0	.5	.7	2.0	1.3	.5	.1	.1	.1	7.5	
.1	.0	.7	2.5	4.8	1.7	.9	.1	.2	.2	24.0	
.0	.1	.3	.3	1.0	.9	.2	.0	.1	.2	8.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.1	.1	.2	.1	.0	.0	3.1	
.2	.1	24	69	156	83	39	7	8	10	1099	
.1	.1	1.6	4.6	10.5	5.6	2.1	.5	.5	.7	73.7	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>3500	3.2	3.6	3.7	3.7	3.7	3.7	3.7	3.7
>2000	7.6	8.7	9.0	9.3	9.3	9.3	9.3	9.3
>1000	14.9	19.0	19.4	19.7	19.7	19.7	19.7	19.7
>600	17.5	23.2	24.0	24.4	24.4	24.4	24.4	24.4
>300	18.3	24.4	25.5	25.9	26.0	26.0	26.0	26.0
>150	18.3	24.4	25.6	26.0	26.1	26.1	26.1	26.1
>0	18.3	24.4	25.7	26.1	26.2	26.2	26.2	26.2
TOTAL	281	375	395	401	402	402	402	402

TOTAL NUMBER OF OBS: 1535

PCT FREQ NH <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
33.5	13.7	10.4	8.2	7.1	5.6	6.8	5.8	8.8	.1	1699

PERIOD: (PRIMARY) 1874-1972
(OVER-ALL) 1855-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.1	.4	.4	.0	.0	.0	.0	.9
	NO PCP	.0	.0	.0	.1	.2	.1	.2	.1	.0	.0	.0	.7
	TOT %	.0	.0	.0	.1	.3	.5	.6	.2	.0	.0	.0	1.7
5<10	PCP	.1	.0	.2	.0	.2	.5	1.7	.2	.0	.0	.0	2.9
	NO PCP	1.0	1.2	.8	.3	1.1	2.1	6.2	2.3	.0	.4	15.4	77.4
	TOT %	1.1	1.2	1.0	.4	1.3	2.6	7.9	2.5	.0	.4	18.4	
10+	PCP	.0	.0	.0	.2	.1	.4	.7	.2	.0	.0	.0	1.7
	NO PCP	7.2	8.9	7.9	1.7	3.6	8.7	26.7	10.0	.0	2.8	79.2	2037
	TOT %	7.2	8.9	8.0	1.9	3.8	9.1	27.3	10.2	.0	2.9	79.2	
TOT OBS													
TOT PCT		8.2	10.2	9.0	2.4	5.3	12.3	36.3	13.0	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.4
	TOT %	.0	.0	.0	.0	.1	.0	.4	.1	.0	.0	.0	.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.1	.3	.5	.2	.0	.0	.0	1.2
	TOT %	.0	.0	.0	.1	.2	.5	.8	.3	.0	.0	.0	2.3
5<10	0-3	.2	.1	.0	.2	.1	.0	.2	.1	.0	.5	.0	1.4
	4-10	.4	.7	.6	.1	.2	.4	1.3	.9	.0	.0	.0	4.7
	11-21	.2	.2	.2	.2	.4	1.1	2.9	.9	.0	.0	.0	6.2
	22+	.3	.2	.0	.1	.3	1.0	2.6	.4	.0	.0	.0	4.9
	TOT %	1.1	1.2	.9	.5	1.1	2.4	7.1	2.3	.0	.5	.0	17.1
10+	0-3	1.5	1.1	.6	.1	.3	.4	.9	.7	.0	3.4	.0	8.9
	4-10	4.1	5.9	3.8	1.0	1.5	4.0	10.4	5.8	.0	.0	.0	36.4
	11-21	1.8	2.6	2.9	.6	1.2	2.7	10.2	2.5	.0	.0	.0	24.5
	22+	.2	.8	1.0	.2	.5	1.4	4.9	1.1	.0	.0	.0	10.1
	TOT %	7.6	10.4	8.3	1.8	3.5	8.5	26.3	10.1	.0	3.4	.0	79.8
TOT OBS													
TOT PCT		8.8	11.6	9.4	2.5	4.8	11.4	34.7	12.9	.0	3.9	100.0	2564

PERIOD: (PRIMARY) 1874-1972
(OVER-ALL) 1855-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.3	.0	1.3	4.4	9.1	3.9	2.1	.8	.5	.3	22.7	77.3	383
06009	.3	.3	1.3	4.7	12.3	7.0	2.6	.5	.3	.8	30.0	70.0	383
12015	.0	.0	1.8	4.7	10.4	4.9	2.0	.2	.4	1.1	25.5	74.5	451
18021	.0	.0	1.6	4.2	8.7	5.5	1.3	.3	.8	.3	22.6	77.4	381
TOT	2	1	24	72	162	85	32	7	8	10	403	1195	1598
PCT	.1	.1	1.5	4.5	10.1	5.3	2.0	.4	.5	.6	25.2	74.8	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HR	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL
(GMT)							OBS
00003	.0	.2	.2	1.4	16.7	81.6	575
06009	.2	.3	.8	2.2	16.6	80.0	645
12015	.0	.1	.7	2.7	17.4	79.1	678
18021	.0	.0	.7	2.6	17.0	79.7	734
TOT	1	4	16	59	446	2106	2632
PCT	.*	.2	.6	2.2	16.9	80.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HR	< 150	< 600	< 1000	1000+	NH < 5/8 AND 5+	TOTAL
(GMT)	< 50 YD	< 1	< 5	AND 5+		OBS
00003	.3	1.6	7.1	17.5	75.3	365
06009	.3	2.2	7.9	23.2	68.9	367
12015	.0	1.8	8.0	18.9	73.1	439
18021	.0	1.6	8.0	16.2	75.6	364
TOT	2	28	119	291	1125	1535
PCT	.1	1.8	7.8	19.0	73.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
75/79	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
70/74	.0	.0	.5	1.3	1.2	.6	.2	.0	64	3.8
65/69	.0	.1	.8	2.9	4.4	6.0	4.7	1.2	339	20.1
60/64	.0	.1	.3	2.1	9.5	17.1	13.6	6.9	837	49.5
55/59	.0	.0	.1	1.3	5.1	6.7	3.6	.9	397	23.5
50/54	.0	.0	.0	.0	.2	.7	.9	.9	47	2.8
45/49	.0	.0	.0	.0	.1	.1	.1	.1	5	.3
TOTAL	0	3	28	128	347	529	443	212	1690	100.0
PCT	.0	.2	1.7	7.6	20.5	31.3	26.2	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
1.3	.5	.*	.0	.1	.3	.5	.8	.0	.1
3.1	3.7	1.7	.4	.5	1.9	4.4	3.4	.0	.9
3.0	5.2	6.3	1.0	1.9	5.1	19.4	5.9	.0	1.7
1.0	.6	.9	.7	2.3	3.8	10.7	2.8	.0	.8
.0	.1	.*	.2	.5	1.0	.9	.1	.0	.0
.*	.*	.0	.0	.1	.1	.1	.0	.0	.0
8.4	10.2	8.9	2.3	5.4	12.1	30.0	13.1	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	76	72	69	62	56	53	47	62.0	1077
06009	80	75	72	64	56	52	45	63.7	1749
12015	79	74	71	64	57	54	49	63.9	1255
18021	79	72	69	63	57	53	47	62.7	1510
TOT	80	73	70	63	57	53	45	63.1	5591

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.4	14.2	28.5	33.5	17.5	79	424
06009	.0	7.9	17.6	30.2	29.2	15.1	77	404
12015	.0	14.9	27.0	31.6	18.8	7.7	72	478
18021	.0	7.0	22.2	33.9	25.8	11.0	76	445
TOT	0	161	359	545	465	221	76	1751

PERIOD: (PRIMARY) 1874-1972
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.0	.1	.1	.0	3	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.2	.1	.0	7	.0	.4
7/8	.0	.0	.0	.1	.1	.5	.5	.2	.0	26	.0	1.3
6	.0	.0	.0	.0	.1	.3	.4	.0	.0	15	.0	.8
5	.0	.0	.0	.0	.4	.6	.6	.1	.0	31	.0	1.6
4	.0	.0	.0	.0	.9	.7	.3	.2	.0	41	.1	2.1
3	.0	.0	.0	.1	1.2	2.2	.5	.1	.0	78	.1	3.9
2	.0	.0	.1	.6	2.3	2.4	.6	.1	.1	116	.2	5.8
1	.0	.0	.0	.5	3.5	2.8	.4	.1	.0	140	.0	7.2
0	.0	.0	.2	1.5	6.0	2.3	.4	.2	.0	205	.1	10.5
-1	.0	.0	.2	2.4	6.0	1.8	.3	.0	.0	297	.1	10.6
-2	.0	.0	.3	3.7	5.3	1.5	.4	.0	.0	216	.0	11.1
-3	.0	.0	.2	3.4	3.9	1.2	.0	.0	.0	168	.1	8.6
-4	.0	.0	.5	4.0	3.3	1.2	.1	.0	.0	176	.1	9.0
-5	.0	.1	.6	3.6	2.7	.7	.1	.0	.0	148	.1	7.6
-6	.0	.0	.5	2.3	1.9	.4	.0	.0	.0	97	.1	5.0
-7/-8	.1	.1	1.5	2.7	2.1	.6	.1	.0	.0	137	.0	7.1
-9/-10	.0	.2	.9	1.3	1.2	.0	.0	.0	.0	70	.0	3.6
-11/-13	.0	.3	.5	.6	.3	.0	.0	.0	.0	34	.0	1.8
-14/-16	.1	.2	.2	.3	.1	.0	.0	.0	.0	15	.0	.8
-17/-19	.0	.1	.2	.1	.0	.0	.0	.0	.0	7	.0	.4
TOTAL	2	18	112	524	799	373	92	18	1	1939	13	1926
PCT	.1	.9	5.8	27.0	41.2	19.2	4.7	.9	.1	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.5	.7	.0	.0	.0	.0	1.2	.4	1.1	.1	.0	.0	.0	1.6
1-2	.2	2.2	.7	.0	.0	.0	3.1	.1	3.3	.4	.0	.0	.0	3.8
3-4	.0	.6	.6	.1	.0	.0	1.3	.0	1.3	1.0	.0	.0	.0	2.3
5-6	.0	.1	.4	.2	.0	.0	.6	.0	.2	1.0	.6	.0	.0	1.8
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.7	1.8	.3	.1	.0	6.6	.5	5.9	3.0	1.2	.0	.0	10.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.5	.1	.0	.0	.0	.6	.2	.3	.0	.0	.0	.0	.5
1-2	.1	2.2	.4	.0	.0	.0	2.7	.1	.7	.3	.0	.0	.0	1.1
3-4	.0	.5	1.1	.1	.0	.0	1.7	.0	.2	.1	.1	.0	.0	.3
5-6	.0	.2	.7	.1	.0	.0	1.0	.0	.0	.1	.0	.0	.0	.2
7	.0	.0	.6	.5	.0	.0	1.1	.0	.1	.2	.1	.0	.0	.4
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.5	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.6	3.2	1.6	.0	.0	8.5	.4	1.2	.8	.3	.0	.0	2.7

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
41	.1	.2	.0	.0	.0	.0		.2	.1	.2	.1	.0	.0	.0		.4
1-2	.0	1.3	.2	.0	.0	.0		1.5	.1	3.9	.6	.0	.0	.0		4.6
3-4	.0	.4	.5	.1	.0	.0		.9	.0	1.3	1.5	.1	.0	.0		2.9
5-6	.0	.0	.7	.1	.0	.0		.7	.0	.1	.8	.9	.0	.0		1.8
7	.0	.0	.2	.1	.0	.0		.3	.0	.1	.7	.5	.0	.0		1.3
8-9	.0	.0	.2	.0	.1	.0		.3	.0	.0	.3	.5	.0	.0		.9
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.4	.1	.0		.7
12	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.2	.1	.0		.3
13-16	.0	.0	.0	.3	.0	.0		.3	.0	.0	.2	.3	.2	.1		.8
17-19	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1
23-25	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.1	.1	.0		.2
26-32	.0	.0	.0	.0	.0	.1		.1	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	1.8	1.7	.8	.3	.1		4.8	.2	5.6	4.4	3.0	.5	.1		13.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
41	.3	1.7	.1	.0	.0	.0		2.1	.1	.7	.1	.0	.0	.0		1.0	
1-2	.2	6.2	1.9	.0	.0	.0		8.3	.3	3.4	.6	.0	.0	.0		4.2	
3-4	.0	5.5	5.8	.8	.0	.0		12.0	.0	1.7	.9	.5	.0	.0		3.1	
5-6	.0	.5	4.4	1.2	.0	.0		6.0	.0	.2	.7	.2	.0	.0		1.2	
7	.0	.2	1.5	1.4	.1	.0		3.2	.0	.1	.2	.1	.0	.0		.5	
8-9	.0	.0	.9	1.1	.1	.0		2.1	.0	.0	.1	.3	.1	.0		.5	
10-11	.0	.0	.4	.7	.4	.1		1.6	.0	.0	.0	.*	.1	.0		.2	
12	.0	.0	.0	.3	.1	.1		.5	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.5	.2	.3		1.0	.0	.0	.0	.*	.0	.0		.*	
17-19	.0	.0	.0	.1	.3	.1		.5	.0	.1	.0	.0	.0	.0		.1	
20-22	.0	.0	.0	.2	.2	.0		.4	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	14.1	15.0	6.3	1.4	.6		37.8	.4	6.3	2.6	1.2	.2	.0		10.7	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.2	5.4	.5	.0	.0	.0	.0	13.1
1-2	1.9	23.3	4.9	.0	.0	.0	.0	30.0
3-4	.0	11.2	11.1	1.7	.0	.0	.0	23.9
5-6	.0	1.3	8.5	3.1	.0	.0	.0	13.0
7	.0	.5	3.8	2.9	.1	.0	.0	7.4
8-9	.0	.0	1.6	2.0	.3	.0	.0	3.8
10-11	.0	.0	.8	1.8	.6	.1	.0	3.2
12	.0	.0	.0	.5	.3	.1	.0	.9
13-16	.0	.0	.3	1.5	.4	.4	.0	2.6
17-19	.0	.2	.1	.3	.4	.1	.0	1.1
20-22	.0	.0	.0	.2	.2	.0	.0	.4
23-25	.0	.0	.0	.3	.2	.0	.0	.5
26-32	.0	.0	.0	.1	.0	.1	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	9.0	41.8	31.6	14.3	2.5	.8	100.0	1019

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.7	4.6	5.7	4.3	2.5	1.3	.8	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	5
6-7	.0	.5	2.9	5.2	4.8	3.4	2.8	1.2	1.9	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	306	8
8-9	.0	.2	1.5	3.2	5.1	3.2	3.1	1.2	2.5	.8	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	274	9
10-11	.0	.3	.6	.6	1.8	2.2	2.7	1.2	1.2	.8	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	156	10
12-13	.0	.0	.8	.2	.3	.9	.8	1.2	1.5	.6	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	92	11
13	.0	.0	.0	.3	.2	.2	.7	.7	.7	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	57	15
INDET	1.8	.3	2.1	1.5	1.4	.8	1.2	.6	.6	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	6
TOTAL	32	76	177	201	208	157	158	83	116	51	16	14	11	0	0	0	0	0	0	0	1300	8
PCT	2.5	5.8	13.6	15.5	16.0	12.1	12.2	6.4	8.9	3.9	1.2	1.1	.8	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1876-1973
(OVER-ALL) 1859-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	1.0	.0	1.7	.0	96.1
NE	.0	.9	.0	.0	.0	.0	.0	.9	.0	.8	.2	.0	1.0	.0	97.2
E	.7	.9	.7	.0	.0	.0	.0	2.0	.3	.0	1.2	.4	2.6	.0	93.6
SE	1.2	.8	.4	.0	.0	.0	.0	2.0	2.8	.0	1.6	.0	3.2	.0	90.3
S	5.1	3.0	.0	.0	.0	.0	.0	8.2	7.5	.0	3.3	.0	.0	.0	81.1
SW	5.7	5.6	1.5	.0	.0	.0	.0	12.4	2.4	1.0	1.0	.0	.4	.3	82.6
W	1.8	3.5	1.1	.0	.0	.0	.3	6.6	4.3	1.6	.3	.0	.2	.0	87.2
NW	.6	2.5	.3	.0	.0	.0	.0	3.5	1.3	2.5	.2	.0	.7	.0	91.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	1.4	.0	4.2	.0	91.5
TOT PCT	1.9	2.7	.7	.0	.0	.0	.1	5.4	2.6	1.1	.7	*	.9	*	89.3
TOT OBS:	2320														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.6	2.8	.2	.0	.0	.0	.2	5.6	3.0	1.9	.7	.2	.4	.2	88.3
0600	2.6	1.9	1.6	.0	.0	.0	.2	6.1	2.9	.3	.8	.0	.5	.0	89.4
1200	.8	1.9	.6	.0	.0	.0	.2	3.3	2.5	.0	1.3	.0	1.6	.0	91.2
1800	1.8	3.9	.3	.0	.0	.0	.0	6.0	2.0	2.4	.7	.0	1.1	.0	88.1
TOT PCT	1.9	2.6	.7	.0	.0	.0	.1	5.2	2.6	1.1	.9	*	.9	*	89.3
TOT OBS:	2403														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.1	4.3	1.7	.4	.1	.0	7.6	9.3	6.1	11.0	9.6	6.9	7.2	7.9	5.1	7.9		
NE	1.0	4.5	2.8	1.0	.1	*	9.3	11.3	11.4	9.2	10.4	7.7	7.7	7.3	8.9	13.7		
E	1.3	5.1	3.4	1.2	.1	*	11.0	11.3	10.9	9.5	10.7	7.1	10.2	13.2	15.2	11.1		
SE	.5	1.6	1.2	.5	.1	*	3.9	12.2	1.8	2.6	2.7	4.0	3.2	7.2	5.2	5.4		
S	.5	1.8	1.4	.4	.2	.1	4.5	12.8	4.6	3.4	5.5	4.4	3.7	4.3	4.6	5.2		
SW	.5	3.5	4.6	2.2	1.3	.5	12.5	18.5	14.2	10.3	9.2	10.7	12.1	15.0	17.2	10.9		
W	1.3	7.9	12.2	7.0	3.9	1.7	34.0	20.2	39.8	30.7	33.5	36.9	38.6	30.9	30.7	30.1		
NW	1.0	5.5	3.9	2.0	.8	.5	13.6	15.4	8.4	18.7	14.6	20.3	13.1	11.0	9.1	12.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.5						3.5	.0	2.8	4.6	3.8	2.0	4.0	3.3	4.0	3.4		
TOT OBS	596	1900	1743	818	360	155	5572		507	632	838	858	767	456	1017	497		
TOT PCT	10.7	34.1	31.3	14.7	6.5	2.8		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	3.1	3.4	.9	.1	.1	7.6	9.3	8.8	8.2	7.4	6.0			
NE	2.9	4.2	1.9	.3	*	9.3	11.3	10.2	9.0	7.5	10.5			
E	3.6	4.6	2.4	.3	*	11.0	11.3	10.1	8.9	11.3	13.9			
SE	1.3	1.4	1.0	.2	*	3.9	12.2	2.2	3.3	4.7	5.3			
S	1.4	1.8	.8	.3	.1	4.5	12.8	4.0	5.0	3.9	4.8			
SW	2.1	4.5	3.4	1.5	1.0	12.5	18.5	12.0	9.9	13.2	15.1			
W	4.3	11.5	10.0	5.0	3.2	34.0	20.2	34.8	35.3	35.9	30.5			
NW	3.3	5.5	2.9	1.1	.8	13.6	15.4	14.1	17.5	12.3	10.1			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	3.5					3.5	.0	3.8	2.9	3.8	3.8			
TOT OBS	1419	2067	1298	494	294	5572		1139	1696	1223	1514			
TOT PCT	25.5	37.1	23.3	8.9	5.3	100.0		100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1876-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.8	6.8	35.5	31.2	14.6	6.1	2.0	14.8	100.0	1139
06009	2.9	6.1	30.6	31.7	16.5	8.3	4.0	17.1	100.0	1696
12015	3.8	7.9	33.9	31.7	14.9	5.2	2.6	15.0	100.0	1223
18021	3.8	8.1	37.1	30.6	12.5	5.7	2.2	14.1	100.0	1514
TOT	196	400	1900	1743	818	360	155	15.3		5572
PCT	3.5	7.2	34.1	31.3	14.7	6.5	2.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	MEAN CLOUD COVER
N	4.2	.7	.9	.1	1.9
NE	8.5	1.1	1.5	.5	1.6
E	8.8	1.1	1.2	.3	1.4
SE	1.3	.4	.4	.1	2.3
S	.9	1.4	1.7	.5	4.4
SW	5.9	2.4	4.2	2.2	3.8
W	14.7	7.8	11.4	4.1	3.7
NW	4.9	1.5	1.4	.4	2.5
VAR	.0	.0	.0	.0	.0
CALM	2.5	.2	.6	.1	1.9
TOT OBS	914	291	412	149	1766
TOT PCT	51.8	16.5	23.3	8.4	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999			OBS
N	.0	.0	.0	.1	.1	.3	.1	.0	.0	.0	.0	5.4
NE	.1	.0	.0	.1	.2	.2	.1	.1	.0	.0	.1	10.8
E	.0	.0	.0	.1	.4	.2	.1	.1	.0	.0	.0	10.5
SE	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.9
S	.0	.0	.2	.4	1.2	.2	.1	.0	.0	.0	.0	2.6
SW	.1	.0	.5	1.5	1.6	.9	.5	.1	.0	.0	.1	9.6
W	.1	.4	2.4	5.2	2.7	.8	.1	.1	.1	.3	.3	26.0
NW	.0	.0	.0	.3	.5	.2	.0	.0	.1	.1	.1	7.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.0	.0	.0	.2	.3	.1	.0	.1	.0	.0	2.8
TOT OBS	5	2	19	84	166	87	29	7	4	11	1352	1766
TOT PCT	.3	.1	1.1	4.8	9.4	4.9	1.6	.4	.2	.6	76.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >5000	.8	.8	.8	.8	.8	.8	.8	.8
OR >5000	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2
OR >3500	2.2	2.7	2.8	2.8	2.8	2.8	2.8	2.8
OR >2000	5.7	7.0	7.4	7.5	7.5	7.5	7.5	7.5
OR >1000	13.7	16.2	16.8	17.0	17.0	17.0	17.0	17.0
OR >600	16.3	20.3	21.4	21.6	21.6	21.6	21.6	21.6
OR >300	16.7	21.1	22.4	22.7	22.7	22.7	22.7	22.7
OR >150	16.7	21.2	22.5	22.8	22.8	22.8	22.8	22.8
OR >0	16.9	21.4	22.7	23.0	23.0	23.0	23.0	23.1
TOTAL	310	392	416	421	421	421	421	422

TOTAL NUMBER OF OBS: 1830

PCT FREQ NH <5/8 76.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	35.2	14.9	10.6	7.3	7.7	4.7	6.9	6.2	6.3	.2	1927

PERIOD: (PRIMARY) 1876-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
	TOT %	*	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.1	
	TOT %	.0	.0	*	.0	.0	.0	*	.0	.0	*	.1	
1<2	PCP	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	
	NO PCP	*	.0	*	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	*	.0	*	.0	.0	.1	.1	.1	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.1	.4	.6	.0	.0	.0	1.1	
	NO PCP	.0	*	.0	*	.1	.2	.1	.0	.0	.0	.4	
	TOT %	.0	*	.0	*	.1	.4	.6	.1	.0	.0	1.5	
5<10	PCP	.0	.1	.1	*	.2	.6	1.0	.2	.0	.0	2.3	
	NO PCP	1.0	1.4	1.4	.6	.7	2.0	4.7	1.3	.0	.3	13.6	
	TOT %	1.0	1.5	1.6	.6	.9	2.6	5.7	1.6	.0	.3	15.9	
10+	PCP	.0	.0	.1	*	.1	.7	.7	.1	.0	.0	1.7	
	NO PCP	5.2	9.6	9.1	2.0	3.5	10.9	29.8	7.5	.0	2.6	80.3	
	TOT %	5.2	9.6	9.2	2.1	3.6	11.6	30.5	7.6	.0	2.6	82.0	
TOT OBS													2317
TOT PCT		6.3	11.2	10.9	2.7	4.6	14.8	37.2	9.3	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	*	.0	.0	.0	*	*	.0	.2	.3	
	4-10	.0	.0	.0	.0	.0	.0	*	.1	.0	.1		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.1	*	*	.0	.0	.0	.1	.1	.0	.2	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	.0	.0	*	.0	.0	.0	*	.0	.0	*	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	.0	.0	.1	.0	.1	.1	
	11-21	*	.0	.0	*	*	*	*	.1	.0	.2	.2	
	22+	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0	.5	
	TOT %	*	.0	*	*	*	.1	.1	.2	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	4-10	.0	.1	.1	*	.1	.1	*	*	.0	.3	.6	
	11-21	.0	*	.1	*	*	.2	.2	*	.0	.0	.6	
	22+	.0	*	.0	.0	*	.3	.6	.1	.0	.0	1.0	
	TOT %	.0	.1	.1	*	.1	.6	.9	.1	.0	.0	2.0	
5<10	0-3	.2	.1	.1	.1	.1	.0	.1	.2	.0	.4	1.1	
	4-10	.5	.6	.6	.3	.4	.5	1.0	.6	.0	.4	4.5	
	11-21	.2	.3	.5	.1	.2	1.1	1.7	.5	.0	.4	4.6	
	22+	.1	.3	.3	.1	.1	.7	2.6	.3	.0	.4	4.5	
	TOT %	.9	1.3	1.5	.6	.8	2.3	5.3	1.5	.0	.4	14.7	
10+	0-3	.9	1.0	.9	.4	.4	.5	.9	.7	.0	2.9	8.4	
	4-10	3.5	4.3	4.5	1.1	1.7	3.6	7.9	4.3	.0	3.0	30.9	
	11-21	.9	3.1	3.2	.7	1.2	5.0	13.3	2.8	.0	.0	30.2	
	22+	.1	.7	.7	.2	.3	2.2	7.8	.8	.0	.0	12.8	
	TOT %	5.4	9.0	9.2	2.5	3.6	11.3	29.8	8.6	.0	2.9	82.3	
TOT OBS													2907
TOT PCT		6.4	10.5	10.9	3.1	4.5	14.3	36.3	10.5	.0	3.5	100.0	

PERIOD: (PRIMARY) 1876-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.9	.2	.7	4.6	9.1	4.3	1.8	.2	.5	1.1	23.5	76.5	439
06009	.0	.2	.6	6.0	13.8	4.9	1.6	.2	.2	.8	28.3	71.7	487
12015	.2	.0	1.2	4.2	7.0	5.2	1.6	.6	.2	.2	20.3	79.7	503
18021	.0	.0	1.8	3.1	7.0	4.2	1.1	.4	.0	.2	17.8	82.2	454
TOT	5	2	20	84	174	88	29	7	4	11	424	1459	1883
PCT	.3	.1	1.1	4.5	9.2	4.7	1.5	.4	.2	.6	22.5	77.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	.2	.2	2.7	12.2	84.3	658
06009	.7	.0	.4	2.0	16.6	80.3	748
12015	.1	.3	.4	1.9	13.6	83.7	744
18021	.6	.0	.8	1.3	15.9	81.4	842
TOT	14	3	14	58	439	2464	2992
PCT	.5	.1	.5	1.9	14.7	82.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.9	1.9	7.5	16.7	75.8	425
06009	.0	.8	8.0	21.1	70.8	473
12015	.2	1.4	6.5	14.5	79.0	490
18021	.0	1.8	6.1	12.2	81.7	442
TOT	5	27	129	296	1405	1830
PCT	.3	1.5	7.0	16.2	76.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/44	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
74/79	.0	.0	.1	.1	.0	.0	.0	.0	2	.1
70/74	.0	.1	.5	.7	.4	.2	.0	.0	49	2.6
64/69	.0	.1	.7	2.1	3.7	3.0	2.8	1.0	256	13.4
60/64	.0	.1	.5	3.6	8.9	14.0	15.5	7.1	950	49.8
54/59	.0	.0	.0	2.7	8.3	9.0	7.9	3.6	602	31.6
50/54	.0	.0	.0	.1	.3	.3	1.2	.5	47	2.5
44/49	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	4	33	180	419	511	526	235	1908	100.0
PCT	.0	.2	1.7	9.4	22.0	26.8	27.6	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.6	.4	.3	.0	.1	.1	.9	.0	.0	.3
2.1	3.2	1.5	.4	.2	1.3	3.1	1.3	.0	.3
2.6	5.6	7.1	1.2	1.6	7.6	18.2	4.3	.0	1.6
.8	2.2	2.1	.7	2.4	5.1	15.0	2.1	.0	1.0
.1	.0	.0	.1	.3	1.0	.8	.2	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
6.3	11.4	11.0	2.4	4.5	15.2	37.3	8.7	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	70	67	60	55	52	49	60.6	1143
06009	79	73	70	61	55	53	48	61.9	1675
12015	80	73	70	63	57	54	50	62.7	1210
18021	77	71	68	61	55	53	48	61.4	1509
TOT	80	72	69	61	55	53	48	61.7	5537

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.0	19.4	26.3	32.3	15.9	78	464
06009	.0	10.6	18.2	23.6	32.7	15.0	77	501
12015	.0	19.4	28.7	26.7	19.2	5.9	71	505
18021	.0	9.2	20.2	30.7	26.0	13.9	76	511
TOT	0	226	429	532	544	250	75	1981

PERIOD: (PRIMARY) 1976-1973
(OVER-ALL) 1955-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.1	.1	*	5	.0	.2
9/10	.0	.0	.0	*	.1	.3	.1	*	12	.0	.5
7/8	.0	.0	.0	.0	.2	.8	.2	.0	25	.0	1.1
6	.0	.0	.0	.1	.5	.3	.0	.0	19	.0	.9
5	.0	.0	.1	.2	.8	.3	*	*	35	.0	1.6
4	.0	.0	*	.7	.6	.3	.1	.0	38	.0	1.7
3	.0	.0	*	1.2	1.3	.2	.0	.0	62	.0	2.8
2	.0	.1	.1	2.7	1.7	.4	*	*	112	.1	5.0
1	.0	.0	1.0	3.9	1.8	.3	.0	.0	154	.0	7.0
0	.0	*	2.5	6.3	1.5	.4	.0	.0	232	.0	10.6
-1	.0	.2	4.2	6.3	.8	.1	.0	.0	257	*	11.7
-2	.0	.8	5.1	5.6	.7	.2	.0	.0	273	.0	12.5
-3	.0	.8	5.8	3.3	.5	*	.0	.0	229	.0	10.5
-4	*	.9	5.4	2.6	.4	.0	.0	.0	203	.1	9.1
-5	*	1.4	5.2	1.7	.4	.0	.0	.0	191	.1	8.6
-6	.0	.8	2.3	1.1	.2	.0	.0	.0	99	.1	4.4
-7/-8	.2	1.0	2.5	1.4	.2	.0	.0	.0	117	.2	5.2
-9/-10	*	1.1	1.5	.6	*	.0	.0	.0	73	.2	3.1
-11/-13	.1	.6	.6	.1	*	.0	.0	.0	37	.0	1.7
-14/-16	.0	.5	.1	.1	.0	.0	.0	.0	14	.0	.6
-17/-19	*	*	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	12	183	807	832	257	82	13	5	2191	19	2172
PCT	.5	8.4	36.8	38.0	11.7	3.7	.6	.2	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	.0	.0	.0	1.1	.6	.3	.0	.0	.0	.0	.9
1-2	.5	1.8	.2	.0	.0	.0	2.4	.2	3.0	.7	.0	.0	.0	4.0
3-4	.0	.7	.4	.0	.0	.0	1.1	.2	.9	1.5	.2	.0	.0	2.8
5-6	.0	.1	.1	.1	.0	.0	.3	.0	.3	1.0	.3	.0	.0	1.7
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	.2	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.1	.1	.0	.0	.0	.1	.0	*	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.1	.0	.1	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.3	1.0	.1	.1	.0	5.4	.9	4.8	3.8	.8	*	.0	10.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.2	.0	.0	.0	.0	1.9	.3	.1	*	.0	.0	.0	.4
1-2	.1	2.9	.4	.0	.0	.0	3.5	.1	.7	.1	.0	.0	.0	.9
3-4	.0	1.5	1.5	.1	.0	.0	3.2	.0	.1	.2	.1	.0	.0	.4
5-6	.0	.0	1.0	.1	.0	.0	1.0	.0	*	.1	*	.0	.0	.1
7	.0	.0	.5	.4	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.1	.2	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.7	3.8	.7	.1	.0	11.1	.4	.9	.5	.1	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.1	.0	.0	.0	.6	.3	.5	.0	.0	.0	.0	.8
1-2	.0	.9	.2	.0	.0	.0	1.1	.3	2.2	.4	.0	.0	.0	2.9
3-4	.0	.2	.8	.1	.0	.0	1.1	.0	1.4	2.1	.2	.0	.0	3.6
5-6	.0	.1	.3	.2	.0	.0	.7	.0	.5	1.8	.9	.0	.0	3.3
7	.0	.0	.1	.1	.1	.0	.6	.0	.0	1.8	.6	.0	.0	2.5
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.1	.2	.4	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.6	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1
20-22	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.5	2.1	.6	.1	.0	4.4	.5	4.7	6.9	2.9	.5	.0	15.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.7	.0	.0	.0	.0	1.2	.3	.5	.0	.0	.0	.0	.9	
1-2	.3	5.0	1.4	.0	.0	.0	6.7	.1	2.3	.1	.0	.0	.0	2.4	
3-4	.0	2.9	6.5	1.2	.0	.0	10.6	.0	1.4	1.0	.2	.0	.0	2.5	
5-6	.0	.5	4.5	2.0	.2	.0	7.1	.0	.3	.5	.2	.1	.0	1.2	
7	.0	.3	2.9	1.6	.7	.0	5.5	.0	.0	.4	.1	.0	.0	.5	
8-9	.0	.0	1.1	1.4	.3	.0	2.7	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.3	1.5	.7	.0	2.5	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.5	.1	.1	.8	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.3	.0	.5	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.4	.4	.2	1.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.2	.1	.2	.1	.6	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.1	.4	.0	.5	.0	.0	.0	.1	.0	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	9.4	17.1	9.3	3.3	.3	40.1	.4	4.5	2.2	.6	.1	.0	7.8	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.7	4.4	.2	.0	.0	.0	12.2	
1-2	2.1	18.4	3.5	.0	.0	.0	24.0	
3-4	.2	8.9	13.7	2.0	.0	.0	24.8	
5-6	.0	1.9	9.2	3.7	.2	.0	15.0	
7	.1	.4	6.3	3.0	.8	.0	10.6	
8-9	.0	.2	1.7	1.9	.2	.0	4.1	
10-11	.0	.1	1.0	2.2	.7	.0	4.0	
12	.0	.0	.2	.7	.2	.1	1.1	
13-16	.0	.0	.2	.3	.5	.0	1.1	
17-19	.0	.0	.1	.5	.5	.2	1.2	
20-22	.0	.0	.2	.3	.2	.0	.7	
23-25	.0	.0	.2	.2	.2	.1	.6	
26-32	.0	.0	.0	.2	.4	.0	.6	
33-40	.0	.0	.0	.0	.1	.0	.1	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.1	34.3	36.5	14.8	4.0	.3	100.0	1226

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	2.9	4.8	4.1	2.2	1.2	.9	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	266	5
6-7	.0	.5	2.1	3.6	4.8	3.2	2.0	1.3	1.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	300	8
8-9	.0	.3	.8	3.5	3.7	3.3	3.5	2.7	3.3	1.3	.4	.5	.1	.0	.0	.0	.0	.0	.0	360	10
10-11	.0	.3	.7	1.3	2.4	3.0	2.7	1.6	1.8	1.0	.5	.2	.3	.0	.0	.0	.0	.0	.0	242	10
12-13	.0	.0	.6	.7	.8	1.4	1.0	.7	1.5	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	114	10
>13	.0	.0	.0	.0	.5	.3	.6	.5	1.3	.3	.7	.2	.3	.1	.0	.0	.0	.0	.0	70	14
INDEY	1.5	.8	1.5	1.6	1.3	1.7	1.8	.6	1.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	182	7
TOTAL	33	72	160	226	241	217	192	113	164	56	32	15	12	1	0	0	0	0	0	1534	8
PCT	2.2	4.7	10.4	14.7	15.7	14.1	12.5	7.4	10.7	3.7	2.1	1.0	.8	.1	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1872-1973
(OVER-ALL) 1854-1973AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRIZ PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	.8	.0	.0	.0	.0	.0	.8	.0	2.1	1.0	.0	3.9	.0	92.3
NE	.7	.5	.5	.0	.0	.0	.0	1.7	.1	1.1	.5	.0	2.0	.0	94.7
E	.5	.0	.5	.0	.0	.0	.3	1.3	.9	.9	.5	.0	1.1	.0	95.6
SE	2.9	2.9	1.2	.0	.0	.0	.0	6.8	2.9	.0	1.5	.0	1.0	.0	87.9
S	4.6	6.0	2.4	.0	.0	.0	.0	12.4	3.5	.0	3.1	.0	.0	.0	81.0
SW	4.4	4.0	1.3	.0	.0	.0	.5	9.9	5.3	.4	.8	.0	1.7	.0	81.8
W	3.1	4.2	.9	.0	.0	.0	.1	8.2	4.6	1.1	.8	.1	1.1	.1	83.9
NW	.7	2.1	.3	.0	.0	.0	.0	3.1	.8	1.3	.7	.0	4.6	.0	89.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	1.4	.0	.0	.0	.0	.0	2.7	.0	4.1	2.7	.0	5.4	.0	85.1
TOT PCT	2.4	2.8	.8	.0	.0	.0	.2	6.1	3.0	1.0	.9	*	1.7	*	87.2
TOT OBS:	2393														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRIZ PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	2.9	2.9	1.5	.0	.0	.0	.2	7.3	2.8	2.2	.7	.0	.7	.0	86.4
0600	3.3	3.3	.6	.0	.0	.0	.2	7.5	3.2	.3	1.3	.0	2.2	.0	85.5
1200	2.1	2.0	.6	.0	.0	.0	.3	4.9	3.8	.2	1.1	.2	2.6	.2	87.1
1800	1.3	2.9	.7	.0	.0	.0	.0	4.9	1.6	1.6	.7	.0	1.0	.0	90.2
TOT PCT	2.4	2.8	.8	.0	.0	.0	.2	6.1	2.9	1.0	.9	*	1.7	*	87.3
TOT OBS:	2439														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.6	3.0	1.5	.3	*	*		5.4	9.9		5.0	7.7	8.0	6.9	3.2	3.6	3.2	5.9
NE	.8	4.7	3.8	1.8	.2	*		11.4	13.4		14.4	13.5	12.0	11.2	8.1	10.1	10.0	13.9
E	1.0	5.4	4.9	2.0	.5	.1		13.9	13.9		14.7	12.0	11.2	10.6	13.5	16.9	17.6	15.3
SE	.7	2.2	1.4	.5	.2	.0		5.0	11.6		4.5	3.1	3.6	4.5	4.3	7.2	7.2	5.5
S	.5	1.9	1.7	1.1	.2	*		5.5	14.7		4.7	5.0	5.1	4.5	5.6	8.3	6.5	4.8
SW	.6	4.4	4.3	2.9	1.2	.3		13.7	17.4		13.7	10.4	12.1	12.7	14.6	14.3	17.2	12.6
W	1.2	7.9	10.9	7.6	3.4	1.3		32.3	19.8		34.0	30.4	33.1	34.4	38.2	28.6	29.6	28.1
NW	.7	3.9	2.6	1.2	.6	.4		9.4	15.5		5.8	13.3	11.8	12.6	9.1	8.5	4.8	10.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		3.3	4.5	3.3	2.5	3.5	2.6	4.0	3.4
TOT OBS	526	1835	1718	959	349	117	5504		15.6		514	597	883	709	782	460	1027	532
TOT PCT	9.6	33.3	31.2	17.4	6.3	2.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	00					03	06	12	18	21
N	2.1	2.4	.8	.1	*		5.4	9.9		6.5	7.5	3.3	4.1	
NE	2.8	4.9	2.7	.8	.1		11.4	13.4		13.9	11.7	8.8	11.3	
E	3.3	5.8	3.6	1.0	.2		13.9	13.9		13.3	10.9	14.8	16.8	
SE	1.7	2.1	.8	.3	*		5.0	11.6		3.7	4.0	5.4	6.6	
S	1.6	1.7	1.5	.7	.1		5.5	14.7		4.9	4.8	6.6	5.9	
SW	2.5	4.9	3.7	2.0	.6		13.7	17.4		11.9	12.3	14.5	15.6	
W	4.1	10.8	9.4	5.3	2.6		32.3	19.8		32.0	33.7	34.6	29.1	
NW	2.5	3.7	1.7	.9	.6		9.4	15.5		9.8	12.1	8.9	6.8	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	3.4						3.4	.0		4.0	3.0	3.1	3.8	
TOT OBS	1321	1998	1334	611	240	5504		15.6		1111	1592	1242	1559	
TOT PCT	24.0	36.3	24.2	11.1	4.4		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1972-1973
(OVER-ALL) 1954-1973

AUGUST

AREA 0020 PORT ELIZABETH
34.4S 24.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.0	6.5	32.3	32.7	16.8	5.9	1.9	15.4	100.0	1111
00009	3.0	5.7	31.6	32.1	17.9	6.9	2.8	16.3	100.0	1592
12015	3.1	6.0	33.2	31.3	17.6	6.8	1.9	15.8	100.0	1242
18021	3.8	6.4	36.0	29.2	17.3	5.7	1.7	14.9	100.0	1559
TOT	189	337	1835	1718	959	349	117	15.6		5504
PCT	3.4	6.1	33.3	31.2	17.4	6.3	2.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	.3	.4	.2		1.5
NW	8.1	1.4	1.6	.6		2.0
E	9.8	1.9	1.7	.9		2.0
SE	1.0	.9	.8	.9		3.8
S	1.1	.7	1.2	1.2		4.8
SW	5.4	2.4	5.2	2.5		4.1
W	12.2	6.5	11.4	7.2		4.3
NW	3.1	.5	1.1	.6		2.9
VAR	.0	.0	.0	.0		.0
CALM	2.8	.2	.4	.1		1.4
TOT OBS	852	269	429	259	1809	3.4
TOT PCT	47.1	14.9	23.7	14.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	3.6
NW	.0	.0	.1	.1	.4	.2	.2	.2	.1	.1	.1	10.4
E	.0	.0	.1	.4	.7	.3	.1	.1	.0	.0	.0	12.8
SE	.0	.1	.1	.4	.3	.2	.1	.1	.0	.1	.1	2.9
S	.1	.1	.2	.6	.5	.4	.1	.1	.0	.0	.0	2.4
SW	.1	.0	.5	1.2	2.8	.8	.5	.2	.1	.1	.1	9.4
W	.1	.1	.6	2.4	6.6	3.0	.6	.7	.1	.1	.1	23.1
NW	.2	.0	.0	.1	.5	.3	.0	.0	.0	.1	.1	4.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	3.2
TOT OBS	4	3	24	97	215	100	32	20	8	6	1300	1809
TOT PCT	.2	.2	1.3	5.4	11.9	5.5	1.8	1.1	.4	.3	71.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.7	.9	.9	.9	.9	.9	.9	.9
>5000	1.5	1.9	2.0	2.0	2.0	2.0	2.0	2.0
>3500	2.8	3.5	3.7	3.7	3.7	3.7	3.7	3.7
>2000	7.2	8.7	9.0	9.0	9.0	9.0	9.0	9.0
>1000	15.3	19.8	20.6	20.7	20.7	20.7	20.7	20.7
>600	18.8	24.6	25.8	26.0	26.0	26.0	26.0	26.0
>300	19.3	25.7	27.1	27.3	27.4	27.4	27.4	27.4
>150	19.3	25.9	27.3	27.4	27.5	27.5	27.5	27.5
>0	19.3	25.9	27.3	27.6	27.7	27.7	27.7	27.7
TOTAL	361	484	511	516	518	518	519	519

TOTAL NUMBER OF OBS: 1871

PCT FREQ NH <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
32.6	13.9	8.8	8.6	7.6	5.5	6.0	5.5	11.2	.2	1948

PERIOD: (PRIMARY) 1872-1973
(OVER-ALL) 1854-1973

AUGUST

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	TOT %	.0	.0	.0	.0	.0	*	.1	*	.0	*	.1	
1/2<1	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	*	*	.0	.0	*	.1	
	TOT %	.0	.0	.0	*	.0	*	*	.0	.0	*	.2	
1<2	PCP	.0	.0	.0	*	*	*	.2	.0	.0	.0	.3	
	NO PCP	*	.1	.0	.0	*	*	.0	.1	.0	*	.4	
	TOT %	*	.1	.0	*	.1	.1	.2	.1	.0	*	.6	
2<5	PCP	.0	*	.1	.1	.2	.3	.4	*	.0	.0	1.0	
	NO PCP	*	.1	.1	.1	.1	.3	.6	.1	.0	*	1.8	
	TOT %	*	.1	.2	.1	.3	.6	1.0	.1	.0	*	2.8	
5<10	PCP	.0	.1	.1	*	.3	.8	1.4	.1	.0	*	2.7	
	NO PCP	.8	1.8	2.3	.9	1.1	2.5	7.0	1.4	.0	.5	18.2	
	TOT %	.8	1.9	2.4	.9	1.4	3.3	8.3	1.5	.0	.6	20.9	
10+	PCP	*	.1	.0	.1	.1	.5	1.0	.1	.0	*	2.0	
	NO PCP	3.3	9.6	11.1	3.2	3.0	11.2	25.4	4.6	.0	2.4	73.7	
	TOT %	3.3	9.7	11.1	3.3	3.1	11.6	26.4	4.7	.0	2.4	75.7	
TOT OBS													2350
TOT PCT		4.1	11.8	13.6	4.4	4.8	15.6	36.0	6.5	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	
	11-21	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	
	22+	.0	.0	.0	.0	.0	*	*	.0	.0	*	*	
	TOT %	.0	.0	.0	.0	.0	*	.1	*	.0	*	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
	11-21	.0	.0	.0	*	.0	.0	*	.0	.0	*	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	
	TOT %	.0	.0	.0	*	.0	*	*	.0	.0	*	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.1	
	4-10	*	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	11-21	.0	*	.0	.0	.0	.0	*	.1	.0	*	.1	
	22+	.0	*	.0	*	.1	.1	.2	.0	.0	*	.4	
	TOT %	*	.1	.0	*	.1	.1	.3	.1	.0	*	.7	
2<5	0-3	*	.0	*	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	*	.1	.1	.1	*	.1	.1	.0	*	.4	
	11-21	.0	.1	.1	*	.2	.3	.2	.1	.0	*	.9	
	22+	.0	*	.1	*	*	.2	.7	.1	.0	*	1.1	
	TOT %	*	.1	.2	.1	.3	.5	1.0	.2	.0	*	2.6	
5<10	0-3	.1	.2	.1	.1	.1	.2	.2	.2	.0	.4	1.5	
	4-10	.4	.7	.7	.3	.2	.7	1.5	.7	.0	*	5.2	
	11-21	.1	.5	1.0	.4	.5	1.0	2.8	.4	.0	*	6.8	
	22+	.1	.6	.7	.1	.4	1.2	3.2	.3	.0	*	6.6	
	TOT %	.7	2.1	2.4	.9	1.2	3.2	7.7	1.6	.0	.4	20.1	
10+	0-3	.4	.4	.6	.4	.3	.4	.6	.4	.0	2.8	6.3	
	4-10	2.3	4.6	5.2	1.9	1.7	4.5	7.4	2.7	.0	*	30.2	
	11-21	.8	3.7	4.4	.8	.9	3.9	10.0	1.6	.0	*	25.9	
	22+	*	1.2	1.4	.1	.3	2.5	7.9	.6	.0	*	14.0	
	TOT %	3.5	9.8	11.6	3.2	3.1	11.3	25.9	5.1	.0	2.8	76.4	
TOT OBS													2922
TOT PCT		4.2	12.1	14.3	4.3	4.7	15.1	35.0	7.0	.0	3.4	100.0	

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.5	4.6	13.9	5.5	.2	1.0	.5	.5	26.6	73.4	417
06009	.0	.2	2.8	6.6	14.8	6.8	1.2	.8	.8	.0	34.0	66.0	500
12015	.7	.2	1.3	5.7	8.4	3.8	2.9	1.5	.4	.5	25.4	74.6	547
18021	.0	.2	.4	3.8	8.8	5.3	2.0	.9	.4	.4	22.3	77.7	453
TOT	4	3	25	100	218	102	32	20	10	7	521	1396	1917
PCT	.2	.2	1.3	5.2	11.4	5.3	1.7	1.0	.5	.4	27.2	77.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.2	.0	.0	2.4	18.0	79.4	600
06009	.0	.3	1.5	2.7	20.2	75.3	746
12015	.3	.3	.8	2.9	20.2	75.6	766
18021	.0	.1	.6	2.0	21.2	76.0	838
TOT	3	5	22	75	603	2302	3010
PCT	.1	.2	.7	2.5	20.0	76.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.5	6.1	21.1	72.8	408
06009	.0	3.1	11.7	23.8	64.5	488
12015	.8	2.6	10.2	17.1	72.7	531
18021	.0	.7	6.3	17.3	76.4	444
TOT	4	34	164	370	1337	1871
PCT	.2	1.8	8.8	19.8	71.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.1	*	*	*	.0	.0	.0	6	.3
75/79	.0	.0	.2	.7	.1	.2	.0	.0	15	.7
70/74	.0	.0	.2	.3	.7	.4	.1	.0	36	1.8
65/69	.0	.0	.1	.7	2.2	4.8	3.3	1.2	251	12.4
60/64	.0	.0	.3	2.0	6.9	15.1	16.6	6.7	964	47.7
55/59	.0	.0	.1	2.1	6.9	10.9	9.5	4.4	684	33.8
50/54	.0	.0	.0	.2	.7	.7	.8	.5	59	2.9
45/49	.0	.0	.0	.0	.0	*	.2	.1	7	.3
TOTAL	0	3	21	112	355	652	618	261	2022	100.0
PCT	.0	.1	1.0	5.5	17.6	32.2	30.6	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.1	*	.0	.0	.0	.0	.1	*	.0	*
75/79	.2	.2	*	.0	.0	*	.1	.1	.0	.1
70/74	.3	.5	.2	*	*	.1	.2	.2	.0	.1
65/69	.8	3.4	2.8	.3	.2	1.4	2.4	.6	.0	.5
60/64	1.7	5.2	7.4	1.4	1.6	7.4	17.8	3.3	.0	1.8
55/59	.9	2.4	3.2	2.0	2.2	6.0	14.6	1.7	.0	.8
50/54	*	*	.1	.4	.7	.8	.8	.1	.0	*
45/49	*	*	.0	.0	*	.2	.1	.0	.0	.0
TOTAL	4.0	11.8	13.8	4.1	4.7	15.9	36.2	6.1	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	69	66	60	54	50	48	60.3	1095
06009	81	73	69	62	55	51	48	61.8	1567
12015	80	77	71	62	55	52	46	62.6	1224
18021	76	70	68	61	55	51	49	61.3	1531
TOT	81	73	69	61	55	51	46	61.5	5417

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.5	13.1	32.8	34.0	15.6	79	488
06009	.0	4.4	15.9	30.7	33.0	15.9	79	521
12015	.0	11.8	23.1	33.3	23.8	7.9	73	567
18021	.0	5.2	16.5	31.9	33.5	12.9	78	520
TOT	0	139	364	675	647	271	77	2096

PERIOD: (PRIMARY) 1977-1973
(OVER-ALL) 1954-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FUG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	4	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	12	*	.5
9/10	.0	.0	.0	*	*	.1	.1	.1	.1	.0	12	*	.5
7/8	.0	.0	.0	*	*	.3	.5	.2	.0	.0	22	.0	1.0
6	.0	.0	*	.1	.1	.5	.4	*	.0	.0	26	*	1.1
5	.0	.0	.0	.1	.7	.5	.4	.0	.0	.0	37	*	1.6
4	.0	.0	.0	.1	.8	1.8	.5	.0	.0	.0	69	*	3.1
3	.0	.0	.1	.3	1.8	1.4	.2	.0	.0	*	88	*	3.9
2	.0	.0	.0	.7	3.6	1.3	.2	.0	*	.0	129	.0	5.8
1	.0	.0	.1	1.5	4.8	1.8	.1	*	.0	.0	185	.1	8.2
0	.0	.0	.2	3.3	6.4	1.1	.0	.0	.0	.0	245	.1	10.9
-1	.0	.0	.2	5.8	5.8	.9	.0	.0	.0	.0	281	*	12.6
-2	.0	.0	.4	6.8	4.6	.6	.1	.0	.0	.0	278	.1	12.4
-3	.0	.0	.6	5.2	2.6	.6	.0	.0	.0	.0	200	*	9.0
-4	.0	.0	.9	4.4	1.9	.4	.0	.0	.0	.0	168	*	7.5
-5	.0	.1	1.7	3.2	1.7	.1	*	.0	.0	.0	150	.0	6.8
-6	.0	.1	1.5	1.8	.8	.1	.0	.0	.0	.0	97	.0	4.4
-7/-8	*	.2	2.3	2.7	.6	.0	.0	.0	.0	.0	130	.0	5.9
-9/-10	*	.3	.6	.8	.4	.0	.0	.0	.0	.0	45	*	2.0
-11/-13	*	.3	.3	.5	.1	.0	.0	.0	.0	.0	27	.1	1.1
-14/-16	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	11	*	.5
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	5		201		817		58		12		2219		2197
PCT	.2	1.0	9.1	37.6	36.8	11.5	2.6	.6	.5	*	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7	.3	.6	*	.0	.0	.0	.9
1-2	.1	1.4	.2	.0	.0	.0	1.7	.1	2.8	.7	.0	.0	.0	3.6
3-4	.0	.7	.4	.1	.0	.0	1.1	.0	1.4	1.8	.6	.0	.0	3.8
5-6	.0	.0	.1	.0	.0	.0	.1	.0	1.5	1.6	.4	.0	.0	2.4
7	.0	.0	.1	.0	.0	.0	.0	.0	.0	.6	.3	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.5	.7	.1	.0	.0	3.6	.4	5.4	4.8	1.9	.1	.0	12.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.1	.0	.0	.0	.9	.1	.2	.1	.0	.0	.0	.4
1-2	.2	3.4	.6	.0	.0	.0	4.1	.2	1.0	.1	.0	.0	.0	1.3
3-4	.0	1.7	1.9	.3	.0	.0	3.9	.0	.8	.4	.0	.0	.0	1.2
5-6	.0	.2	1.6	.1	.0	.0	2.0	.0	.2	.1	*	.0	.0	.3
7	.0	.1	1.0	.3	.0	.0	1.9	.0	.0	.2	.1	.0	.0	.3
8-9	.0	.1	.3	.4	.1	.0	.8	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.1	5.4	2.0	.1	.0	14.0	.3	2.3	1.0	.2	.0	.0	3.8

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.4	.2	.3	.1	.0	.0	.0	.6
1-2	.3	.8	.1	.0	.0	.0	1.2	.1	3.1	.6	.0	.0	.0	3.8
3-4	.0	.3	.8	.0	.0	.0	1.1	.1	1.4	1.6	.2	.0	.0	3.4
5-6	.0	.1	.4	.1	.0	.0	.5	.0	.4	1.9	.5	.1	.0	2.9
7	.0	.0	.1	.1	.0	.0	.2	.0	.2	.8	.2	.2	.0	1.4
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.0	.5	.7	.2	.0	1.3
10-11	.0	.0	.0	.2	.1	.0	.3	.0	.0	.1	.5	.1	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.5
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.1	.3	.2	.1	.0	.7
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	1.6	.6	.1	.0	4.1	.4	5.5	5.9	2.7	1.1	.0	15.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.1	.0	.0	.0	.0	1.5	.3	.5	.0	.0	.0	.0	.8	
1-2	.5	3.9	1.4	.0	.0	.0	5.8	.4	1.6	.1	.0	.0	.0	2.2	
3-4	.0	2.4	5.0	.7	.0	.0	8.1	.0	.9	.7	.0	.0	.0	1.6	
5-6	.0	.0	4.7	2.3	.1	.0	7.1	.0	.2	.5	.2	.0	.0	.8	
7	.0	.1	2.2	2.4	.5	.0	5.2	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	1.3	2.7	.5	.0	4.5	.0	.0	.0	.0	.1	.0	.1	
10-11	.0	.0	.2	1.2	.8	.0	2.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.2	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.6	.2	.0	.8	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.1	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.2	.3	.6	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	7.6	14.7	10.4	3.1	.5	37.1	.7	3.2	1.4	.3	.1	.0	5.7	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	4.6	.2	.0	.0	.0	10.7	
1-2	2.1	18.1	3.7	.0	.0	.0	23.9	
3-4	.1	9.5	12.3	1.9	.0	.0	23.8	
5-6	.0	1.5	10.6	3.6	.2	.0	15.8	
7	.0	.4	5.0	4.0	.7	.0	10.0	
8-9	.0	.2	2.2	4.1	.9	.0	7.4	
10-11	.0	.0	.3	2.2	1.0	.0	3.5	
12	.0	.0	.1	.5	.7	.0	1.2	
13-16	.0	.1	.4	1.0	.3	.0	1.8	
17-19	.0	.0	.0	.2	.1	.2	.5	
20-22	.0	.0	.1	.3	.2	.0	.5	
23-25	.0	.0	.0	.0	.2	.0	.4	
26-32	.0	.0	.0	.0	.2	.3	.5	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.1	34.4	34.9	17.8	4.4	.5	100.0	1291

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.7	4.1	5.0	4.9	2.6	1.6	.9	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	332	5
6-7	.0	.2	2.0	5.6	4.7	3.8	3.5	1.4	1.5	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	370	8
8-9	.0	.3	.8	3.3	4.2	3.2	3.1	2.1	3.0	.8	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	340	9
10-11	.0	.3	.4	1.3	1.5	2.1	1.6	1.6	2.1	.8	.5	.1	.3	.0	.0	.0	.0	.0	.0	.0	198	10
12-13	.0	.0	.9	.9	.8	.7	1.1	.7	2.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	129	10
13-14	.0	.0	.0	.4	.8	.1	.6	.3	.9	.2	.4	.3	.1	.2	.0	.0	.0	.0	.0	.0	68	14
INDET	.8	.5	1.1	2.0	1.5	2.0	.5	.2	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	7
TOTAL	24	84	162	292	253	217	180	106	168	46	30	8	12	3	0	0	0	0	0	0	1585	8
PCT	1.5	5.3	10.2	18.4	16.0	13.7	11.4	6.7	10.6	2.9	1.9	.5	.8	.2	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1881-1973
(OVER-ALL) 1855-1973

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
N	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.0	2.0	1.5	1.0	.0	90.9	
NE	1.1	.0	.5	.0	.0	.0	.5	2.1	.5	2.4	2.8	.0	3.3	.0	89.4	
E	2.4	.4	1.5	.0	.0	.0	.0	4.3	2.1	1.2	1.3	.0	1.7	.0	89.5	
SE	4.3	4.2	.9	.0	.0	.0	.0	9.4	4.3	.0	1.5	.0	1.3	.0	89.4	
S	6.8	3.4	2.2	.0	.0	.0	.0	12.5	7.4	.0	.6	.0	.4	.0	79.0	
SW	3.2	2.7	.6	.0	.0	.0	.0	6.5	4.5	.6	.6	.0	1.1	.0	86.7	
W	2.1	1.8	.4	.0	.0	.0	.0	4.3	2.6	1.0	1.1	.1	1.5	.1	89.3	
NW	3.5	4.6	1.0	.0	.0	.0	.0	8.1	2.8	.5	1.3	.3	1.8	.0	85.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	2.1	2.1	.0	91.7	
TOT PCT	2.7	1.8	.8	.0	.0	.0	*	5.4	3.0	1.1	1.2	.1	1.6	*	87.7	
TOT OBS:	2185															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	1.0	2.7	.2	.0	.0	.0	.2	4.1	2.1	1.9	1.0	.2	1.6	.0	89.3
06009	2.9	2.4	1.3	.0	.0	.0	.0	6.6	4.4	.4	1.1	.4	1.5	.2	85.6
12015	2.2	1.2	.9	.0	.0	.0	.0	4.3	2.4	.0	1.4	.0	2.4	.0	89.6
18021	4.3	1.2	.8	.0	.0	.0	.0	6.1	3.3	1.8	1.2	.0	.8	.0	86.8
TOT PCT	2.7	1.8	.8	.0	.0	.0	*	5.3	3.1	1.0	1.2	.1	1.6	*	87.8
TOT OBS:	2249														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.4	1.6	.8	.2	*	*		3.1	10.2		1.4	4.5	3.9	3.9	2.8	2.3	2.5	2.7
NE	.5	3.1	3.1	1.5	.3	*		8.4	14.5		10.3	10.8	9.0	9.7	6.7	6.0	6.2	10.2
E	.7	6.2	7.2	2.6	.4	.1		17.2	14.3		20.6	14.8	16.1	12.2	17.3	19.2	19.6	18.3
SE	.6	2.9	2.6	.5	.2	*		6.8	11.8		4.8	6.5	5.8	6.4	6.6	9.0	9.1	5.6
S	.6	3.0	2.1	.8	.2	*		6.9	12.8		5.2	6.0	7.5	6.5	7.3	7.1	7.7	6.5
SW	.9	5.7	5.5	2.8	1.0	.1		16.0	15.5		16.0	14.5	13.3	15.5	14.9	19.2	18.9	15.2
W	1.0	7.8	12.5	7.1	2.6	.8		31.8	18.7		33.5	30.5	33.1	32.9	37.2	29.7	28.3	29.5
NW	.4	2.6	2.1	1.1	.5	.2		6.9	16.1		4.6	9.7	9.2	9.2	5.0	5.8	4.0	8.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0		3.5	2.6	2.1	3.7	2.1	1.7	3.7	3.5
TOT DBS	415	1720	1870	869	276	68	5218		15.2		512	576	839	643	666	478	990	514
TOT PCT	8.0	33.0	35.8	16.7	5.3	1.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
	03	09	15	21								
N	1.3	1.3	.3	.1	.1		3.1	10.2	3.1	3.9	2.6	2.6
NE	1.7	3.5	2.3	.8	.1		8.4	14.5	10.6	9.3	6.4	7.6
E	3.1	7.6	5.3	1.2	.1		17.2	14.3	17.5	14.4	18.1	19.2
SE	1.9	3.3	1.3	.3	*		6.8	11.8	5.7	6.0	7.6	7.9
S	2.0	3.0	1.3	.5	.1		6.9	12.8	5.6	7.1	7.2	7.3
SW	3.1	6.7	3.8	1.9	.4		16.0	15.5	15.2	14.3	16.7	17.6
W	3.7	11.6	9.9	4.7	1.8		31.8	18.7	31.9	33.0	34.1	28.7
NW	1.5	2.7	1.5	.6	.5		6.9	16.1	7.3	9.2	5.3	5.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	3.0	2.8	1.9	3.7
TOT DBS	1112	2068	1344	531	163	5218		15.2	1088	1482	1144	1504
TOT PCT	21.3	39.6	25.8	10.2	3.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1881-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.0	5.0	34.9	35.3	16.0	4.5	1.3	14.8	100.0	1088
0600	2.8	5.9	30.6	33.8	18.0	7.2	1.6	16.0	100.0	1482
1200	1.9	5.2	31.2	38.5	16.6	5.4	1.1	15.5	100.0	1504
1800	3.7	4.1	35.2	36.2	15.8	3.9	1.1	14.5	100.0	1504
TOT	152	263	1720	1870	869	276	68	15.2		5218
PCT	2.9	5.0	33.0	35.8	16.7	5.3	1.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.3	.4	.2	3.1	
NE	5.6	1.2	1.2	1.0	2.3	
E	9.7	2.6	2.8	3.2	3.0	
SE	1.1	.6	2.1	1.8	5.4	
S	1.3	.8	2.7	2.5	5.5	
SW	5.2	3.2	5.0	2.9	4.2	
W	10.1	7.1	11.5	6.1	4.4	
NW	1.3	.3	1.1	1.0	4.4	
VAR	.0	.0	.0	.0	.0	
CALM	1.7	.2	.3	.3	2.3	
TOT OBS	622	274	454	315	1665	
TOT PCT	37.4	16.5	27.3	18.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	.1	.1	.1	.1	.1	.2	1.7
NE	.1	.0	.0	.1	.7	.3	.1	.0	.0	.1	7.6
E	.2	.0	.4	.8	1.9	.6	.2	.1	.1	.1	14.0
SE	.0	.0	.1	.9	1.1	.6	.4	.1	.1	.1	2.3
S	.2	.0	.1	.9	1.6	.9	.2	.1	.1	.1	3.1
SW	.0	.1	.5	1.4	2.1	1.3	.3	.2	.1	.2	10.2
W	.1	.0	.7	3.2	4.8	2.9	.9	.4	.1	.4	21.3
NW	.1	.0	.1	.4	.6	.3	.3	.0	.0	.0	1.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	2.2
TOT OBS	10	1	32	130	219	120	47	15	7	19	1070
TOT PCT	.6	.1	1.9	7.8	13.2	7.2	2.5	.9	.4	1.1	64.3

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>5000	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>3500	4.3	4.8	4.9	4.9	4.9	4.9	4.9	4.9
>2000	10.2	11.9	12.1	12.1	12.1	12.2	12.2	12.2
>1000	20.2	24.5	25.0	25.1	25.1	25.2	25.2	25.2
>600	24.4	31.4	32.4	32.7	32.8	32.8	32.8	32.8
>300	25.2	33.1	34.3	34.7	34.7	34.8	34.8	34.8
>150	25.2	33.1	34.3	34.7	34.8	34.8	34.8	34.8
>0	25.4	33.4	34.7	35.1	35.2	35.4	35.4	35.4
TOTAL	435	572	594	601	602	605	606	606

TOTAL NUMBER OF OBS: 1711

PCT FREQ NH <5/8: 64.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	25.3	12.1	10.9	9.6	6.5	6.4	7.6	7.4	13.8	.4	1796

PERIOD: (PRIMARY) 1881-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	* .1	.1	* .0	* .0	* .0	* .0	* .1	.0	.0	.0	.5	
	TOT %	* .1	.1	* .0	* .0	* .0	* .0	* .1	.0	.0	.0	.5	
1/2<1	PCP	.0	.0	* .0	* .0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	* .0	* .0	* .0	* .0	.0	.0	.0	.1	
	TOT %	.0	.0	* .0	* .0	* .0	* .0	* .0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	* .1	.1	.0	.0	.0	.0	.3	
	NO PCP	* .0	.1	.1	.0	* .2	.3	* .0	.0	.0	.0	.5	
	TOT %	* .0	.1	.1	.0	* .2	.3	* .0	.0	.0	.0	.8	
2<5	PCP	.0	.0	.3	.1	.2	.3	.2	.0	.0	.0	1.1	
	NO PCP	.0	.2	.2	.1	* .2	.2	* .0	.0	.0	.0	.9	
	TOT %	.0	.2	.5	.1	.3	.4	* .0	.0	.0	.0	2.0	
5<10	PCP	.0	.2	.3	.3	.4	.3	.5	.3	.0	.0	2.2	
	NO PCP	.6	1.8	3.6	1.5	2.0	3.2	5.3	1.1	.0	.4	19.5	
	TOT %	.6	2.0	3.9	1.8	2.4	3.5	5.9	1.4	.0	.4	21.7	
10+	PCP	.0	.0	.2	.2	.3	.3	.6	.1	.0	.0	1.7	
	NO PCP	1.6	7.2	14.1	3.7	4.6	11.5	25.7	2.9	.0	1.8	73.2	
	TOT %	1.6	7.2	14.2	3.9	5.0	11.8	26.3	3.0	.0	1.8	74.9	
TOT OBS													
TOT PCT													
		2.3	9.4	18.9	6.1	7.7	15.9	32.9	4.5	.0	2.2	100.0	2181

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	.0	*	.1	* .0	.0	* .0	* .0	* .0	.0	.0	.2	
	11-21	.0	*	.1	.0	.0	.0	* .0	* .0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	* .0	* .0	.0	.0	.1	
	TOT %	*	.1	.1	* .0	* .0	* .1	* .0	* .0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	* .1	* .0	* .0	* .0	* .0	* .0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	* .1	* .0	* .0	* .0	* .0	* .0	.0	.0	.2	
1<2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	* .0	* .0	* .0	* .0	* .0	* .0	.0	.0	.1	
	11-21	.0	.0	.1	* .0	* .0	* .0	* .0	* .0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.1	.2	* .0	.0	.0	.3	
	TOT %	*	* .1	.1	.1	* .1	.2	.2	* .0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	*	.2	* .1	* .1	* .1	* .0	* .0	.0	.0	.5	
	11-21	.0	.1	.3	.1	.1	.3	.3	* .0	.0	.0	1.2	
	22+	.0	.1	.1	* .2	.4	.3	.1	* .0	.0	.0	1.1	
	TOT %	.0	.2	.5	.2	.4	.7	.7	.1	.0	.1	2.8	
5<10	0-3	*	.2	.2	.1	.2	* .1	* .1	* .0	.0	.4	1.2	
	4-10	.4	.7	1.2	.5	.7	1.0	1.3	.6	.0	.0	6.4	
	11-21	.1	.7	1.6	.7	.7	1.2	2.1	.4	.0	.0	7.5	
	22+	.1	.2	.6	.3	.4	1.3	2.5	.4	.0	.0	5.8	
	TOT %	.5	1.7	3.6	1.6	1.9	3.6	6.0	1.4	.0	.4	20.9	
10+	0-3	.3	.3	.4	.3	.3	.6	.5	.3	.0	2.0	5.1	
	4-10	1.1	2.7	5.0	2.4	2.6	4.6	6.9	1.7	.0	.0	27.0	
	11-21	.4	2.5	6.0	1.5	1.5	4.6	12.0	1.0	.0	.0	29.6	
	22+	*	1.0	2.2	.3	.5	2.3	6.7	.5	.0	.0	13.4	
	TOT %	1.9	6.5	13.6	4.5	4.9	12.1	26.1	3.5	.0	2.0	75.1	
TOT OBS													
TOT PCT													
		2.4	8.5	18.0	6.4	7.2	16.5	33.2	5.1	.0	2.4	100.0	2848

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.2	.0	.9	6.5	10.0	7.2	2.1	.5	.7	.5	29.4	70.6	432
06009	.5	.2	3.6	8.9	17.9	8.4	2.9	1.2	.2	1.7	45.5	54.5	418
12015	.4	.0	2.2	7.3	11.9	6.3	3.0	.9	.4	.6	33.0	67.0	464
18021	.2	.0	.9	7.3	11.1	6.4	1.8	.9	.2	1.6	30.4	69.6	450
TOT	10	1	33	132	223	124	43	15	7	19	607	1157	1764
PCT	.6	.1	1.9	7.5	12.6	7.0	2.4	.9	.4	1.1	34.4	65.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.0	.6	2.3	18.4	78.4	643
06009	.4	.0	.4	3.7	24.2	71.3	707
12015	.6	.3	.4	2.5	19.9	76.4	725
18021	.4	.4	1.1	2.9	20.5	74.8	837
TOT	12	5	19	83	605	2188	2912
PCT	.4	.2	.7	2.9	20.8	75.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50yd	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.2	2.1	9.8	21.0	69.2	419
06009	.5	4.7	15.1	32.6	52.3	405
12015	.4	3.1	11.5	23.0	65.6	453
18021	.2	1.4	9.7	22.1	68.2	434
TOT	10	48	196	420	1095	1711
PCT	.6	2.8	11.5	24.5	64.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.1	.1	.0	.0	4	.2
70/74	.1	.0	.1	.2	.9	.8	.3	.1	47	2.5
65/69	.0	.0	.1	.6	2.3	4.5	4.2	1.4	251	13.2
60/64	.0	.0	.4	1.7	8.0	16.7	19.4	9.2	1055	55.4
55/59	.0	.0	.3	1.8	5.5	8.9	7.3	3.4	518	27.2
50/54	.0	.0	.0	.2	.2	.4	.5	.5	29	1.5
45/49	.0	.0	.0	.0	.1	.0	.1	.0	2	.1
TOTAL	1	0	17	87	323	595	605	278	1906	100.0
PCT	.1	.0	.9	4.6	16.9	31.2	31.7	14.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1
70/74	.2	.5	.6	.1	.1	.2	.4	.1	.0	.1
65/69	.4	1.9	3.5	.7	.4	1.8	3.8	.4	.0	.3
60/64	1.3	4.7	10.6	2.7	3.3	8.7	19.9	2.5	.0	1.7
55/59	.4	1.8	3.7	2.3	4.2	4.8	8.5	1.3	.0	.3
50/54	.0	.1	.1	.1	.2	.6	.5	.0	.0	.1
45/49	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0
TOTAL	2.3	9.1	18.4	5.9	8.1	16.2	33.1	4.4	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	69	66	60	55	52	50	60.6	1076
06009	79	73	70	62	56	52	47	62.2	1443
12015	78	73	70	63	57	54	51	63.0	1117
18021	76	71	67	61	56	52	48	61.5	1476
TOT	79	72	69	62	56	52	47	61.9	5112

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.2	1.7	17.7	27.4	35.5	22.6	81	482
06009	.0	7.5	13.9	31.0	32.3	15.2	78	467
12015	.0	9.6	24.7	32.7	24.9	8.2	74	502
18021	.0	2.7	15.5	33.7	33.5	14.5	79	516
TOT	1	105	330	615	620	296	78	1967

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	TOT	W FOG	WD FOG
	48	52	56	60	64	68	72	76	80			
14/16	.0	0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	0	.0	.0	.0	*	*	.1	*	6	.0	.3
9/10	.0	.0	.0	.0	.1	.1	.3	.1	.0	13	.0	.6
7/8	.0	.0	.0	.1	*	.2	.6	.0	.0	21	.1	.9
6	.0	.0	.0	.0	.2	.4	.1	*	.0	15	*	.7
5	.0	.0	.0	.0	.1	1.0	.1	*	.0	25	*	1.2
4	.0	.0	.0	.0	1.2	1.5	.4	*	.0	65	.1	3.0
3	.0	.0	.3	2.0	1.6	.1	*	*	.0	83	.1	3.9
2	.0	.0	.4	.6	1.5	.3	*	*	.0	146	*	7.1
1	.0	.0	*	1.7	6.3	1.4	.2	.0	.0	199	.0	9.7
0	.0	.0	.2	3.4	10.4	1.1	.2	*	.0	314	.1	15.2
-1	.0	.0	.0	5.7	6.8	.8	.1	.0	.0	275	.1	13.3
-2	.0	.0	.3	5.7	4.5	1.1	.0	.0	.0	239	.1	11.5
-3	.0	.0	.5	4.9	2.8	.6	.1	.0	.0	184	*	8.9
-4	.0	.0	.7	3.4	2.2	.3	.0	.0	.0	137	.1	6.6
-5	.0	*	1.1	2.5	1.2	.4	.0	.0	.0	107	.1	5.1
-6	.0	*	.5	1.4	.8	.2	.0	.0	.0	59	.0	2.9
-7/-8	.0	.0	1.2	1.9	1.3	.1	.0	.0	.0	93	*	4.5
-9/-10	*	.1	.8	1.0	.3	.0	.0	.0	.0	47	*	2.2
-11/-13	.0	*	.2	.7	*	.0	.0	.0	.0	21	.0	1.0
-14/-16	.0	*	*	.0	.0	.0	.0	.0	.0	2	.0	.1
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	9	117	684	921	56	12	2	2054	24	2030	
PCT	*	.4	5.7	33.3	44.8	12.3	2.7	.6	.1	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.2	.0	.0	.0	.0	.4	.1	.3	.0	.0	.0	.0	.4
1-2	.1	.7	.1	.0	.0	.0	1.0	.0	2.0	.3	.0	.0	.0	2.3
3-4	.0	.2	.2	.0	.0	.0	.4	.0	1.0	1.4	.4	.0	.0	2.7
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.1	.5	.5	.0	.0	1.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.9	.3	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.1	.6	.0	.0	.0	2.0	.1	3.3	3.4	1.9	.0	.0	8.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.7	.0	.0	.0	.0	1.0	.1	.2	.0	.0	.0	.0	.3
1-2	.1	3.0	1.2	.0	.0	.0	4.2	.1	1.3	.3	.0	.0	.0	1.7
3-4	.0	2.0	2.8	.3	.0	.0	5.1	.0	1.2	.8	.0	.0	.0	2.0
5-6	.0	.3	2.5	.7	.0	.0	3.4	.0	.2	.7	.0	.0	.0	1.0
7	.0	.1	1.9	.9	.0	.0	2.9	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.4	.3	.1	.0	.8	.0	.0	*	*	*	.0	.1
10-11	.0	.0	.2	.5	.0	.0	.7	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	*	.1	.0	.1
13-16	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.0	9.1	3.3	.1	.0	18.9	.2	2.9	2.3	.2	.1	.0	5.7

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.5	.0	.0	.0	.0		.7	.3	.3	.0	.0	.0	.0		.6
1-2	.1	1.4	.4	.0	.0	.0		1.8	.0	3.3	.7	.0	.0	.0		4.1
3-4	.1	.5	.8	.0	.0	.0		1.4	.0	1.3	1.7	.2	.0	.0		3.2
5-6	.0	.7	.6	.3	.0	.0		1.7	.0	.2	2.0	.6	.0	.0		2.9
7	.0	.2	.9	.3	.1	.0		1.5	.0	.2	1.1	.4	.0	.0		1.6
8-9	.0	.0	.0	.2	.1	.0		.3	.0	.0	.4	.5	.2	.0		1.2
10-11	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.7	.1	.0		.8
12	.0	.0	.0	.1	.1	.0		.1	.0	.0	.0	.3	.2	.0		.5
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.5	.2	.0		.7
17-19	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.2	.1		.2
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	3.3	2.7	1.1	.4	.0		7.8	.3	5.3	6.2	3.2	1.0	.1		16.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	1.1	.2	.0	.0	.0		1.6	.7	.0	.0	.0	.0	.0		.2	
1-2	.3	4.8	1.0	.0	.0	.0		6.1	.1	.9	.0	.0	.0	.0		1.0	
3-4	.0	2.0	5.5	.7	.0	.0		8.2	.2	.4	.3	.1	.0	.0		1.0	
5-6	.0	.7	5.8	1.2	.1	.0		7.6	.0	.1	.5	.1	.0	.0		.7	
7	.1	.2	3.2	2.7	.0	.0		6.1	.0	.1	.2	.3	.0	.0		.6	
8-9	.0	.1	.5	.6	.2	.0		1.4	.0	.0	.0	.0	.0	.0		.1	
10-11	.0	.0	.3	1.1	.1	.0		1.5	.0	.0	.1	.0	.0	.0		.2	
12	.0	.0	.2	.5	.0	.0		.7	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.5	.4	.1		1.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.1	.1		.2	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.1	.1		.2	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.6	8.9	16.8	7.3	1.1	.2		35.0	.5	1.5	1.2	.5	.1	.0		3.8	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.5	3.4	.2	.0	.0	.0	8.2	
1-2	1.2	17.2	4.0	.0	.0	.0	22.4	
3-4	.2	8.5	13.4	1.6	.0	.0	23.7	
5-6	.0	2.4	12.6	3.3	.1	.0	18.4	
7	.1	.7	8.6	4.8	.1	.0	14.2	
8-9	.0	.1	1.6	2.0	.6	.0	4.2	
10-11	.0	.0	.8	2.9	.3	.0	4.0	
12	.0	.0	.2	1.1	.3	.0	1.7	
13-16	.0	.0	.2	1.3	.6	.1	2.1	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.2	.2	.4	
23-25	.0	.0	.0	.0	.2	.1	.2	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	32.3	41.6	17.0	2.7	.3	100.0	1226

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	2.9	3.9	5.5	3.7	1.7	1.5	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	293	5
6-7	.0	.3	3.0	3.9	6.4	3.9	4.1	1.9	1.8	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	378	8
8-9	.0	.1	.8	2.8	4.4	4.1	3.1	1.7	2.5	.9	.1	.1	.1	.0	.0	.0	.0	.0	.0	299	9
10-11	.0	.2	.4	.9	1.6	2.3	1.5	1.2	2.6	1.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	179	10
12-13	.0	.0	.5	1.0	.8	.8	1.2	.3	.8	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	87	10
>13	.0	.0	.0	.3	.1	.6	.3	.3	.8	.2	.3	.2	.3	.0	.0	.0	.0	.0	.0	49	14
INDET	1.2	.4	1.0	2.0	1.5	1.9	1.7	.5	.9	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	163	7
TOTAL	22	57	138	239	267	222	193	91	142	44	19	6	8	0	0	0	0	0	0	1448	8
PCT	1.5	3.9	9.5	16.5	18.4	15.3	13.3	6.3	9.8	3.0	1.3	.4	.6	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1978-1973
(OVER-ALL) 1954-1973

OCTOBER

AREA 0020 PORT ELIZABETH
34.4S 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	2.8	.0	.0	.0	.0
NE	.3	.5	.2	.0	.0	.0	.0	1.0	.3	2.7	1.6	.0	3.1	.0
E	1.6	1.2	1.7	.0	.0	.0	.0	4.2	1.2	.9	2.0	.0	3.4	.0
SE	3.5	.7	1.0	.0	.0	.0	.0	5.1	6.6	.2	3.0	.7	.8	.0
S	1.8	2.2	1.4	.0	.0	.0	.0	5.4	2.2	1.4	.6	.0	.0	.0
SW	1.8	2.0	2.1	.0	.0	.0	.0	5.6	3.6	1.0	1.2	.0	1.8	.0
W	1.4	1.5	1.8	.0	.0	.0	.0	4.5	2.6	1.1	2.7	.2	1.9	.5
NW	2.3	2.3	2.3	.0	.0	.0	.0	7.0	.0	.6	2.3	.0	1.5	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.3	.0	.0	.0	.0	.0	2.3	.0	.0	9.1	.0	4.5	.0
TOT PCT	1.7	1.5	1.6	.0	.0	.0	.0	4.5	2.3	1.1	2.1	.1	2.1	.1
TOT OBS:	2231													87.6

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
0000	2.3	1.7	2.3	.0	.0	.0	.0	6.2	2.5	1.7	2.5	.0	.6	.2
0600	1.7	1.4	1.7	.0	.0	.0	.0	4.5	2.9	.5	3.6	.3	2.6	.2
1200	.5	1.5	1.1	.0	.0	.0	.0	2.9	2.3	.0	1.8	.2	3.1	.2
1800	2.2	1.5	1.0	.0	.0	.0	.0	4.7	1.8	2.7	1.3	.0	2.0	.0
TOT PCT	1.6	1.5	1.5	.0	.0	.0	.0	4.5	2.4	1.2	2.3	.1	2.1	.1
TOT OBS:	2312													87.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	1.5	.6	.2	.1	*		2.8	10.3		1.9	3.9	3.8	2.9	1.8	2.0	2.0	4.1
NE	.4	2.3	2.6	1.5	.2	*		7.1	14.8		6.8	8.1	8.4	7.7	4.5	4.9	6.5	9.9
E	.8	5.9	8.2	4.2	.7	*		19.8	15.7		21.2	17.6	18.7	17.5	22.4	18.0	21.1	21.0
SE	.5	3.6	2.9	.9	.2	*		8.2	12.4		8.4	7.2	5.1	6.8	8.7	10.9	10.9	7.8
S	.8	4.2	2.6	.7	.1	*		8.5	11.4		9.5	6.6	5.8	7.8	7.8	10.9	10.9	9.1
SW	.8	5.5	6.2	3.1	.8	.2		16.7	15.6		16.1	13.7	14.8	14.2	17.5	22.2	19.6	14.2
W	1.0	6.7	10.5	6.7	2.3	.8		28.1	18.7		28.1	30.4	33.4	30.6	30.7	25.6	21.9	25.0
NW	.4	2.6	1.8	.8	.5	.2		6.3	16.0		4.3	9.5	7.9	9.4	4.8	4.1	4.2	6.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		3.7	3.0	2.2	3.1	1.8	1.4	2.9	2.2
TOT OBS	422	1754	1922	980	264	71	5413		15.3		518	606	915	581	719	516	1051	507
TOT PCT	7.8	32.4	35.5	18.1	4.9	1.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	1.1	1.2	.4	.1	.1				2.8	10.3	3.0	3.5	1.9
NE	1.5	2.9	1.9	.8	.1				7.1	14.8	7.5	8.1	4.7
E	3.2	7.8	6.3	2.2	.2				19.8	15.7	19.3	18.2	20.6
SE	2.1	4.1	1.6	.5	*				8.2	12.4	7.8	5.8	9.6
S	2.7	3.9	1.5	.3	.1				8.5	11.4	7.9	6.6	9.1
SW	3.1	6.9	4.6	1.6	.5				16.7	15.6	14.8	14.6	19.4
W	3.4	10.2	8.8	4.0	1.7				28.1	18.7	29.4	32.3	28.6
NW	1.4	2.6	1.2	.7	.4				6.3	16.0	7.1	8.5	4.5
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0
CALM	2.5								2.5	.0	3.3	2.5	1.6
TOT OBS	1139	2142	1425	541	166	5413			15.3		1124	1496	1235
TOT PCT	21.0	39.6	26.3	10.0	3.1				100.0		100.0	100.0	100.0

PERIOD: (PRIMARY) 1878-1973
(OVER-ALL) 1854-1973

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AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	3.3	4.2	32.7	35.7	17.6	5.0	1.5	15.3	100.0	1124
06009	2.5	5.6	32.0	34.5	18.9	4.8	1.6	15.5	100.0	1496
12015	1.6	4.9	32.8	36.2	18.5	5.0	1.1	15.6	100.0	1235
18021	2.6	6.1	32.2	35.8	17.4	4.7	1.1	14.9	100.0	1558
TOT	136	286	1754	1922	980	264	71	15.3		5413
PCT	2.5	5.3	32.4	35.5	18.1	4.9	1.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.6	.3	.5	.2		3.8
NE	3.2	1.2	1.2	1.1		3.4
E	10.9	3.0	4.9	4.2		3.5
SE	1.9	1.4	2.4	1.3		4.5
S	3.0	1.6	2.9	1.8		4.3
SW	4.9	3.4	5.5	4.2		4.7
W	6.1	5.1	10.2	7.6		5.1
NW	.8	.5	.9	.9		4.8
VAR	.0	.0	.0	.0		.0
CELW	1.0	.2	.4	.3		3.6
TOT OBS	564	291	505	376	1736	4.4
TOT PCT	32.5	16.8	29.1	21.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.3	.1	.1	.0	.0	.1	1.1	
NE	.1	.1	.2	.5	.5	.4	.1	.0	.0	.1	4.9	
E	.0	.3	.1	2.2	2.4	1.0	.6	.0	.1	.2	16.1	
SE	.0	.0	.1	.4	1.2	.4	.7	.1	.1	.0	4.6	
S	.1	.0	.3	.7	1.6	.5	.3	.1	.0	.0	5.8	
SW	.1	.1	.4	1.4	2.6	1.4	.8	.1	.1	.1	11.0	
W	.2	.0	1.0	3.1	5.4	2.5	1.0	.3	.3	.4	14.7	
NW	.1	.1	.0	.2	.5	.3	.3	.1	.0	.1	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CELW	.1	.0	.2	.2	.2	.1	.0	.0	.0	.0	1.4	
TOT OBS	8	10	39	149	257	115	57	12	11	14	1064	1736
TOT PCT	.5	.6	2.2	8.6	14.8	6.6	3.3	.7	.6	.8	61.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.0	1.5	1.7	1.7	1.7	1.7	1.7	1.7
>5000	1.3	2.2	2.4	2.4	2.4	2.4	2.4	2.4
>3500	3.9	5.3	5.6	5.6	5.6	5.6	5.6	5.6
>2000	8.9	11.6	12.1	12.2	12.2	12.2	12.2	12.2
>1000	18.6	25.1	26.4	26.6	26.7	26.8	26.8	26.8
>600	23.2	33.1	34.7	35.1	35.2	35.3	35.4	35.4
>300	23.9	34.7	36.8	37.2	37.4	37.5	37.6	37.6
>150	24.0	35.3	37.5	37.9	38.1	38.3	38.3	38.3
>0	24.2	35.5	37.8	38.1	38.3	38.5	38.8	38.8
TOTAL	433	635	675	682	685	689	694	694

TOTAL NUMBER OF OBS: 1788

PCT FREQ NH <5/8 61.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
18.4	15.1	11.0	9.0	7.1	6.3	7.3	8.5	16.9	.3	1905

PERIOD: (PRIMARY) 1978-1973
(OVER-ALL) 1854-1973

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34.45 24.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	*	*	.1	.1	.1	.3	.0	.0	*	.6	
	TOT %	.0	*	*	.1	.1	.1	.3	.0	.0	*	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	*	.0	*	*	.0	.0	.0	.2	
	TOT %	.0	.0	.1	*	.0	*	.1	.0	.0	.0	.3	
1<2	PCP	.0	.0	.1	*	*	.0	.0	*	.0	.0	.2	
	NO PCP	.0	.2	.4	.0	.0	*	.1	.0	.0	.0	.8	
	TOT %	.0	.2	.5	*	*	*	.1	.0	.0	*	1.0	
2<5	PCP	.0	.0	.1	.1	.1	*	*	.0	.0	.0	.4	
	NO PCP	*	*	.2	.1	.1	.4	1.1	.1	.0	.1	2.2	
	TOT %	*	*	.3	.1	.2	.5	1.2	.1	.0	.1	2.6	
5<10	PCP	.0	.1	.6	.2	.3	.6	.6	.2	.0	*	2.4	
	NO PCP	.6	1.9	4.3	1.1	1.5	4.1	7.5	.9	.0	.4	22.4	
	TOT %	.6	2.0	4.9	1.3	1.8	4.6	8.1	1.1	.0	.5	24.9	
10+	PCP	*	*	.2	*	.1	.4	.6	*	.0	.0	1.3	
	NO PCP	1.3	4.8	16.5	5.2	6.5	12.3	19.0	2.5	.0	1.3	69.3	
	TOT %	1.3	4.8	16.7	5.2	6.6	12.6	19.6	2.5	.0	1.3	70.6	
TOT OBS													
TOT PCT													
		2.0	7.0	22.5	6.8	8.6	17.9	29.4	3.8	.0	2.0	100.0	2226

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.0	*	.1	.0	.0	*	.1	
	4-10	*	*	*	*	*	.1	.1	*	.0	*	.3	
	11-21	.0	*	*	.0	.0	.0	.1	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	.1	*	.1	.3	*	.0	*	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	.0	*	
	4-10	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	*	.0	.0	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.1	*	.0	*	.1	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	4-10	.0	.1	.1	*	.0	*	*	.0	.0	.0	.4	
	11-21	.0	*	.3	.1	*	*	.1	.0	.0	.0	.5	
	22+	.0	*	.1	.1	*	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.6	.1	*	.1	.2	*	.0	*	1.2	
2<5	0-3	.0	.0	.0	*	*	*	*	.0	.0	.1	.2	
	4-10	.1	*	.1	*	.1	.1	.3	.1	.0	.0	.8	
	11-21	*	*	.1	*	.1	.2	.4	*	.0	.0	.9	
	22+	.0	*	.2	.1	.1	.2	.4	*	.0	.0	1.0	
	TOT %	.1	.1	.4	.2	.3	.5	1.1	.2	.0	.1	2.9	
5<10	0-3	.1	*	.2	.1	.2	.2	.2	.1	.0	.5	1.7	
	4-10	.2	.4	.9	.6	.6	1.4	1.5	.5	.0	.0	6.2	
	11-21	.1	.7	2.1	.3	.6	1.7	3.4	.3	.0	.0	9.3	
	22+	.2	.6	1.2	.3	.3	1.4	2.5	.2	.0	.0	6.7	
	TOT %	.6	1.7	4.5	1.3	1.8	4.7	7.6	1.2	.0	.5	23.8	
10+	0-3	.2	.2	.6	.2	.5	.7	.8	.1	.0	1.6	5.0	
	4-10	.9	1.8	4.9	3.0	3.9	4.7	5.4	1.6	.0	.0	26.2	
	11-21	.2	2.0	7.0	1.8	1.6	5.3	8.6	1.0	.0	.0	27.5	
	22+	.0	.7	3.1	.3	.2	2.2	5.8	.3	.0	.0	12.7	
	TOT %	1.4	4.7	15.6	5.3	6.2	13.0	20.7	3.0	.0	1.6	71.4	
TOT OBS													
TOT PCT													
		2.1	6.7	21.2	6.9	8.3	18.3	29.9	4.4	.0	2.2	100.0	2934

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 41.2	NH <5/8 ANY HGT	TOTAL OBS
00003	1.0	.2	2.6	11.0	15.2	6.0	2.4	.7	1.0	1.2	41.2	58.8	420
06009	.4	1.7	2.6	10.8	15.3	8.9	3.9	1.3	.4	1.3	46.7	53.3	463
12015	.2	.2	1.9	5.4	11.3	5.0	2.9	.4	.4	.4	28.2	71.8	515
18021	.4	.7	1.3	6.4	15.4	5.7	3.1	.4	.9	1.1	35.5	64.5	454
TOT	9	13	39	153	263	118	57	13	12	18	695	1157	1852
PCT	.5	.7	2.1	8.3	14.2	6.4	3.1	.7	.6	1.0	37.5	62.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	.0	.2	3.2	23.1	72.8	658
06009	.8	.1	1.3	3.1	24.0	70.7	754
12015	.7	.4	1.7	2.9	22.2	72.1	749
18021	.5	.2	1.3	2.7	25.5	69.8	855
TOT	20	6	35	89	717	2149	3016
PCT	.7	.2	1.2	3.0	23.8	71.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.0	3.9	16.7	26.0	57.4	408
06009	.4	5.6	18.5	30.3	51.2	449
12015	.2	3.0	12.0	18.7	69.4	493
18021	.5	2.5	11.2	26.3	62.6	438
TOT	9	67	259	449	1080	1788
PCT	.5	3.7	14.5	25.1	60.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
75/79	.0	.0	.0	.1	.1	.0	.1	.0	4	.2
70/74	.0	.0	.0	.1	1.0	1.5	1.4	.4	86	4.4
65/69	.0	.0	.1	.9	3.4	6.9	11.7	7.2	588	30.2
60/64	.0	.0	.4	1.9	9.3	14.0	16.2	11.3	1031	53.0
55/59	.0	.0	.7	2.8	4.2	2.7	1.4	.4	228	11.7
50/54	.0	.0	.0	.0	.0	.1	.2	.2	7	.4
TOTAL	0	0	8	71	321	520	626	399	1945	100.0
PCT	.0	.0	.4	3.7	16.5	26.7	32.2	20.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
75/79	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0
70/74	.1	.9	1.5	.3	.2	.5	.8	.1	.0	.1
65/69	1.0	2.8	9.1	2.1	2.2	5.1	6.4	1.1	.0	.5
60/64	.7	3.0	11.3	3.6	4.1	9.4	18.2	1.7	.0	1.0
55/59	.2	.3	1.0	.7	1.6	2.9	3.9	.5	.0	.4
50/54	.0	*	*	.1	.0	.1	.1	.0	.0	.0
TOTAL	2.0	7.0	22.9	6.8	8.1	18.1	29.4	3.5	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	70	68	62	57	55	52	62.3	1135
06009	80	74	71	64	58	56	52	64.1	1492
12015	78	74	71	65	59	56	51	65.0	1266
18021	75	72	69	63	58	55	49	63.2	1555
TOT	80	73	70	64	58	55	49	63.7	5408

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.7	12.2	23.9	36.2	26.0	82	469		
06009	.0	3.8	16.1	27.7	30.3	22.1	79	502		
12015	.0	7.9	22.4	30.1	28.0	11.7	76	532		
18021	.0	3.1	15.0	24.2	33.4	24.4	81	521		
TOT	0	85	335	537	645	422	79	2024		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.1	*	.1	.1	.0	9	.0	.4
9/10	.0	.0	*	.2	.1	.4	.1	.0	18	.0	.9
7/8	.0	.0	.0	*	.1	.1	*	*	9	.0	.4
6	.0	.0	.0	.1	.5	.6	.3	.0	31	.0	1.5
5	.0	.0	.0	.4	1.5	1.0	.1	.0	63	.2	2.8
4	.0	.0	.0	.8	2.4	.9	.0	.0	88	.2	4.0
3	.0	*	*	.9	2.5	.5	.0	.0	85	.2	3.8
2	.0	.0	.1	3.9	4.6	.5	.1	.0	195	*	9.2
1	.0	.0	.5	5.8	4.2	.9	.0	.0	241	.5	10.9
0	.0	.0	.6	9.5	4.5	.1	.0	.0	312	.7	14.1
-1	.0	.0	2.1	7.2	2.1	.4	.0	.0	251	.2	11.7
-2	.0	.1	2.1	6.3	1.4	.2	.0	.0	214	.0	10.1
-3	.0	.2	2.9	4.7	1.2	.1	.0	.0	195	*	9.2
-4	.0	.4	2.8	2.9	.8	.1	.0	.0	148	*	6.9
-5	.0	.2	2.6	1.3	.8	.0	.0	.0	104	*	4.9
-6	.0	.1	1.1	1.3	.3	.0	.0	.0	60	.0	2.8
-7/-8	.1	.3	1.0	1.2	.1	.0	.0	.0	58	.0	2.7
-9/-10	.0	.2	.3	.3	.1	.0	.0	.0	20	.0	.9
-11/-13	.0	.1	.1	.2	.0	.0	.0	.0	9	.0	.4
-14/-16	*	.0	.1	.1	.0	.0	.0	.0	5	.0	.2
TOTAL	3		346		579		17		2116	45	2071
PCT	.1	1.7	16.4	47.4	27.4	6.1	.8	*	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.4
1-2	.0	.5	.1	.0	.0	.0	.6	.0	1.1	.2	.0	.0	.0	1.3
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.5	1.3	.0	.0	.0	1.8
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.1	1.0	.4	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.4	.1	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	*	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	.8	.2	.0	.0	.0	1.1	.1	2.0	3.6	1.4	.2	.0	7.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	.0	.0	.0	.0	.9	*	.1	.0	.0	.0	.0	.1
1-2	.1	3.3	1.4	.0	.0	.0	4.8	.1	1.8	.5	.0	.0	.0	2.5
3-4	.2	2.2	3.2	.1	.0	.0	5.6	.0	.9	.8	*	.0	.0	1.6
5-6	.0	.5	3.5	1.0	.0	.0	4.9	.0	.4	.8	.2	.0	.0	1.3
7	.0	.1	1.8	1.2	.0	.0	3.2	.0	*	.4	.2	.0	.0	.6
8-9	.0	.3	.4	.7	.1	.0	1.5	.0	*	*	.0	.1	.0	.1
10-11	.0	.0	.6	.5	.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.1	.4	.1	.0	.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.9	10.9	4.3	.4	.0	23.3	.1	3.2	2.6	.4	.1	.0	6.4

PERIOD: (OVER-ALL) 1963-1973

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TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.5	.7	.0	.0	.0	.0	1.3	.2	.5	.2	.0	.0	.0	.8
1-2	.1	2.7	.5	.0	.0	.0	3.3	.4	3.4	.5	.0	.0	.0	4.3
3-4	.1	.8	.3	.0	.0	.0	1.2	.0	1.4	2.6	.5	.0	.0	4.6
5-6	.0	.4	.3	.2	.0	.0	.9	.0	.3	1.5	.4	.1	.0	2.4
7	.1	.3	.5	.3	.0	.0	1.2	.*	.1	1.1	.5	.3	.0	2.1
8-9	.0	.1	.1	.0	.1	.0	.3	.0	.1	.4	.7	.1	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.5
12	.0	.1	.1	.0	.0	.0	.2	.0	.*	.*	.1	.*	.0	.2
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.2	.*	.4
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.*	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.*	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.*	.0	.0	.0	.*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.0	1.8	.5	.1	.0	8.4	.6	5.9	6.4	2.9	.9	.*	16.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.4	.8	.0	.0	.0	.0	1.1	.*	.1	.0	.0	.0	.0	.1	
1-2	.5	3.6	1.5	.0	.0	.0	5.5	.1	.8	.4	.0	.0	.0	1.3	
3-4	.0	2.0	3.4	.2	.0	.0	5.7	.0	.7	.4	.0	.0	.0	1.2	
5-6	.0	.3	3.6	1.6	.1	.0	5.6	.0	.0	.4	.1	.0	.0	.5	
7	.1	.4	2.4	1.8	.6	.1	5.3	.0	.0	.1	.2	.0	.0	.3	
8-9	.0	.0	.4	1.5	.4	.0	2.3	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.2	.1	1.3	.4	.0	2.0	.0	.0	.2	.0	.1	.0	.3	
12	.0	.0	.0	.6	.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.5	.1	1.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.5	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	7.2	11.5	7.8	3.3	.2	31.0	.1	1.6	1.5	.4	.1	.0	3.7	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
41	5.1	3.3	.2	.0	.0	.0	8.6	085
1-2	1.8	17.3	4.9	.0	.0	.0	24.0	
3-4	.3	8.6	11.7	.8	.0	.0	21.3	
5-6	.0	1.9	10.8	3.7	.2	.0	16.6	
7	.2	.9	7.0	4.3	.9	.1	13.5	
8-9	.0	.5	1.4	3.2	.7	.0	5.8	
10-11	.0	.2	.9	2.3	.7	.0	4.1	
12	.0	.1	.2	1.2	.5	.0	2.0	
13-16	.0	.0	.2	.9	.9	.2	2.2	
17-19	.0	.0	.0	.6	.4	.0	1.0	
20-22	.0	.0	.1	.1	.4	.0	.5	
23-25	.0	.0	.1	.1	.1	.0	.2	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.4	32.8	37.4	17.2	4.9	.2	100.0	1293

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	.5	2.4	5.1	4.9	3.9	1.7	1.3	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	339
6-7	.1	.3	2.2	5.1	6.0	3.6	3.3	1.6	1.7	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	387
8-9	.0	.3	1.4	3.5	4.9	5.1	4.1	1.1	1.7	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	368
10-11	.0	.2	.4	.4	2.4	2.0	1.8	1.3	1.3	.6	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	172
12-13	.0	.0	.3	.2	.7	.8	1.3	.8	1.0	.1	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	88
13	.0	.0	.0	.4	.1	.0	.3	.4	.6	.4	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	43
INDEX	1.2	.7	.6	1.7	2.2	1.1	1.4	.8	1.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	174
TOTAL	28	60	158	254	318	226	213	106	124	39	26	10	7	2	0	0	0	0	0	0	1571
PCT	1.8	3.8	10.1	16.2	20.2	14.4	13.6	6.7	7.9	2.5	1.7	.6	.4	.1	.0	.0	.0	.0	.0	.0	100.0

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO), WEST AF--ETC(U)
NOV 76

F/G 4/2

NL

5 OF 6
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PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

NOVEMBER

AREA 0020 PORT ELIZABETH
34.4S 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SPRAY
				PCPN	PCPN	FRZN	PCPN	OB TIME	HR	LTNG	WD	PCPN	HAZE	BLWG
											PCPN	PAST HR		DUST
														SIG
														WEA
N	1.7	3.3	.0	.0	.0	.0	.0	5.0	.0	.0	3.3	.0	10.8	.0
NE	.9	.0	.0	.0	.0	.0	.0	1.6	.6	1.6	.6	.6	1.9	.0
E	1.0	.7	.9	.0	.0	.0	.0	2.6	.4	1.1	2.2	.0	2.3	.2
SE	3.1	1.5	2.0	.0	.0	.0	.0	6.6	3.0	.4	2.7	.0	1.2	.0
S	.6	5.0	2.5	.0	.0	.0	.0	8.1	3.6	.4	2.3	.0	1.1	.0
SW	1.2	3.8	1.6	.0	.0	.0	.0	6.5	4.2	.6	2.5	.0	.8	.0
W	1.1	2.1	1.3	.0	.0	.0	.0	4.3	3.6	.5	4.4	.0	1.1	.0
NW	2.6	1.9	2.6	.0	.0	.0	.0	7.1	3.9	1.6	1.9	1.3	2.3	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	.0	.0	.0
TOT PCT	1.3	2.2	1.4	.0	.0	.0	.0	4.9	2.7	.7	2.9	.1	1.5	.0
TOT OBS:	2436													87.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SPRAY
				PCPN	PCPN	FRZN	PCPN	OB TIME	HR	LTNG	WD	PCPN	HAZE	BLWG
											PCPN	PAST HR		DUST
														SIG
														WEA
0000	1.8	2.1	2.1	.0	.0	.0	.0	5.8	3.4	.7	2.5	.0	1.2	.0
0600	1.2	2.5	1.1	.0	.0	.0	.0	4.8	3.7	.5	3.6	.0	1.4	.0
1200	.8	2.2	.6	.0	.0	.0	.0	3.7	1.6	.3	2.9	.2	1.9	.0
1800	1.2	2.2	1.8	.0	.0	.0	.0	5.2	2.1	1.3	3.1	.1	1.5	.3
TOT PCT	1.2	2.3	1.4	.0	.0	.0	.0	4.9	2.7	.7	3.0	.1	1.5	.1
TOT OBS:	2507													87.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	1.0	.4	.1	.3	.0		1.9	8.7		1.1	2.5	2.6	2.5	1.0	1.6	1.5	2.0
NE	.3	2.5	2.5	1.1	.3	.0		6.7	15.1		7.9	6.3	8.8	6.9	5.3	5.7	5.2	8.0
E	.8	6.7	8.7	3.5	.6	.1		20.4	15.1		19.1	19.9	18.3	16.9	21.9	18.8	23.4	24.0
SE	.8	5.1	4.3	1.2	.2	.0		11.6	12.4		9.2	10.8	9.0	10.1	12.5	14.1	14.2	12.5
S	.9	5.1	3.2	1.0	.2	.0		10.5	11.8		10.7	8.0	9.2	10.7	11.5	12.5	12.5	8.9
SW	.8	6.6	5.6	2.3	1.0	.2		16.6	14.9		16.9	10.9	15.3	15.8	22.0	18.8	18.7	14.4
W	1.2	7.1	8.7	4.3	1.8	.8		23.7	17.4		27.0	27.2	26.7	27.5	20.2	22.4	19.4	20.7
NW	.4	2.1	1.5	.6	.2	.2		5.0	14.5		4.4	9.8	6.0	5.4	3.2	3.6	2.8	5.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		3.7	4.6	4.1	4.2	2.3	2.6	2.4	4.1
TOT OBS	565	2239	2157	879	273	92	6205		14.3		563	765	1027	739	732	586	1178	615
TOT PCT	9.1	36.1	34.8	14.2	4.4	1.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	06	12
											09	15	21	
N	.9	.7	.2	.1	.0			1.9	8.7		1.9	2.5	1.3	1.7
NE	1.4	2.6	1.9	.6	.1			6.7	15.1		7.0	8.0	5.5	6.1
E	3.1	9.3	6.2	1.5	.3			20.4	15.1		19.6	17.7	20.5	23.6
SE	2.8	5.8	2.4	.5	.1			11.6	12.4		10.1	9.5	13.2	13.6
S	3.3	4.8	1.8	.6	.1			10.5	11.8		9.1	9.8	11.9	11.3
SW	3.6	7.3	3.7	1.5	.6			16.6	14.9		13.4	15.5	20.6	17.2
W	3.8	9.6	6.2	2.7	1.5			23.7	17.4		27.1	27.0	21.1	19.8
NW	1.4	2.1	.9	.4	.3			5.0	14.5		7.5	5.8	3.4	3.7
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	3.4							3.4	.0		4.2	4.1	2.4	3.0
TOT OBS	1478	2612	1441	489	185	6205			14.3		1328	1766	1318	1793
TOT PCT	23.8	42.1	23.2	7.9	3.0			100.0			100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	MEAN		
0000	4.2	6.2	37.6	32.5	13.9	4.3	1.4	13.9	100.0	1328
0600	4.1	6.1	35.3	33.5	14.5	4.5	2.0	14.4	100.0	1766
1200	2.4	4.4	35.6	37.9	14.3	4.3	1.1	14.4	100.0	1318
1800	3.0	5.8	36.1	35.4	14.0	4.5	1.3	14.3	100.0	1793
TOT	214	351	2239	2157	879	273	92	14.3		6205
PCT	3.4	5.7	36.1	34.8	14.2	4.4	1.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	000	150	300	400	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	.2	.3	.3		4.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.9
NE	4.2	1.2	1.0	.6		2.6	.0	.0	.1	.1	.4	.2	.1	.1	.0	.0	.0	5.9
E	12.2	3.4	3.2	2.3		2.7	.0	.0	.3	.8	1.7	.4	.4	.1	.0	.0	.1	17.2
SE	3.6	1.9	3.0	1.8		4.1	.0	.0	.1	1.0	1.2	.8	.4	.0	.1	.1	.1	6.9
S	3.7	2.1	3.3	2.5		4.4	.0	.0	.3	1.2	2.1	.7	.3	.0	.0	.0	.1	6.9
SW	4.7	3.3	7.2	4.4		4.9	.2	.0	.4	1.6	3.7	2.2	.7	.1	.0	.0	.2	10.6
W	6.3	4.1	7.6	5.7		4.8	.2	.0	.8	2.8	3.7	2.1	.5	.1	.2	.5	.5	12.9
NW	1.0	.4	.6	.7		4.1	.0	.0	.0	.5	.1	.2	.1	.0	.0	.0	.0	1.7
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	.5	.3	.6		3.4	.1	.0	.1	.1	.3	.3	.1	.0	.0	.0	.0	1.9
TOT OBS	694	318	490	352	1854	4.1	.8	.0	.41	1.51	2.47	1.30	.47	.7	.5	.16	1202	1854
TOT PCT	37.4	17.2	26.4	19.0	100.0		.4	.0	2.2	8.1	13.3	7.0	2.5	.4	.3	.9	64.8	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

WIND DIR	000	150	300	400	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.9
NE	.0	.0	.1	.1	.4	.2	.1	.1	.0	.0	.0	5.9
E	.0	.0	.3	.8	1.7	.4	.4	.1	.0	.0	.1	17.2
SE	.0	.0	.1	1.0	1.2	.8	.4	.0	.1	.1	.1	6.9
S	.0	.0	.3	1.2	2.1	.7	.3	.0	.0	.0	.1	6.9
SW	.2	.0	.4	1.6	3.7	2.2	.7	.1	.0	.0	.2	10.6
W	.2	.0	.8	2.8	3.7	2.1	.5	.1	.2	.5	.5	12.9
NW	.0	.0	.0	.5	.1	.2	.1	.0	.0	.0	.0	1.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.0	.1	.1	.3	.3	.1	.0	.0	.0	.0	1.9
TOT OBS	.8	.0	.41	1.51	2.47	1.30	.47	.7	.5	.16	1202	1854
TOT PCT	.4	.0	2.2	8.1	13.3	7.0	2.5	.4	.3	.9	64.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3000	1.3	1.6	1.6	1.7	1.7	1.7	1.7	1.7
>3500	2.9	4.0	4.2	4.2	4.2	4.2	4.2	4.2
>2000	7.9	10.5	11.1	11.1	11.1	11.1	11.1	11.1
>1000	17.9	23.2	24.6	24.8	24.8	24.8	24.8	24.8
>600	22.6	30.3	32.5	32.7	32.7	32.7	32.7	32.7
>300	23.5	31.8	34.5	34.8	34.8	34.8	34.8	34.8
>150	23.5	31.8	34.5	34.8	34.8	34.8	34.8	34.8
>0	23.6	32.0	34.7	35.1	35.1	35.2	35.2	35.3
TOTAL	449	609	661	668	668	670	670	671

TOTAL NUMBER OF OBS: 1903

PCT FREQ NH <5/8: 64.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.0	17.6	12.4	8.8	6.5	5.5	7.3	8.4	14.2	.3	1903

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

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AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	NO PCP	*	*	*	.1	.0	.1	.3	.0	.0	.1	.7	
	TOT %	*	*	*	.1	.0	.1	.3	.0	.0	.1	.7	
1/2<1	PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	*	.0	.0	.0	.1	*	.0	.0	.2	
	TOT %	.0	*	*	.0	.0	.0	.1	*	.0	.0	.2	
1<2	PCP	.0	*	*	.0	.0	.1	.1	.0	.0	.0	.2	
	NO PCP	.1	*	*	*	*	.1	.1	.1	.0	.0	.6	
	TOT %	.1	.1	.1	*	*	.2	.2	.1	.0	.0	.8	
2<5	PCP	.0	*	.1	.0	.2	.0	.0	*	.0	.0	.4	
	NO PCP	.1	.1	.5	.3	.3	.3	1.0	*	.0	.1	2.7	
	TOT %	.1	.2	.6	.3	.5	.3	1.0	.1	.0	.1	3.1	
5<10	PCP	.1	.0	.4	.6	.4	.8	.7	.2	.0	.0	3.0	
	NO PCP	.1	.7	4.1	2.2	1.6	3.2	5.3	1.1	.0	.5	18.9	
	TOT %	.2	.7	4.5	2.8	2.0	4.0	6.0	1.2	.0	.5	21.8	
10+	PCP	.0	.0	.1	.2	.4	.4	.3	.0	.0	.0	1.2	
	NO PCP	.9	5.5	15.9	7.4	8.6	14.1	16.4	1.7	.0	1.6	72.2	
	TOT %	.9	5.5	16.0	7.6	8.9	14.5	16.7	1.7	.0	1.6	73.4	
TOT OBS													2435
TOT PCT		1.2	6.5	21.2	10.8	11.5	19.1	24.2	3.2	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	*	*	*	.0	.1	.2	.0	.0	.0	.4	
	11-21	.0	*	*	*	.0	*	.1	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	*	.1	*	*	.0	.1	.3	.0	.0	.1	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.0	*	.0	.0	.0	.0	*	.1	*	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	TOT %	.0	*	*	.0	.0	.0	.2	*	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	4-10	*	*	.1	*	*	.1	*	.0	.0	.0	.3	
	11-21	*	.0	.0	*	*	.1	.1	.1	.0	.0	.3	
	22+	.0	.0	*	.0	.0	.1	*	.0	.0	.0	.2	
	TOT %	*	*	.1	*	*	.2	.2	.1	.0	.0	.8	
2<5	0-3	.1	.0	*	.1	.0	*	.1	.0	.0	.2	.4	
	4-10	.0	.1	.2	.1	.2	.2	.5	.1	.0	.0	1.4	
	11-21	.0	.1	.4	.1	.2	*	.2	*	.0	.0	1.1	
	22+	.0	*	.2	.2	.1	.1	.2	.0	.0	.0	.8	
	TOT %	.1	.2	.8	.5	.5	.3	1.0	.1	.0	.2	3.8	
5<10	0-3	.0	.1	.2	.2	.1	.1	.2	.1	.0	.5	1.6	
	4-10	.1	.2	1.4	.9	.9	1.4	1.9	.4	.0	.0	7.3	
	11-21	*	.3	1.8	1.3	.6	1.5	2.1	.4	.0	.0	8.0	
	22+	.0	.1	1.1	.5	.3	.7	1.3	.1	.0	.0	4.2	
	TOT %	.2	.7	4.6	2.9	1.9	3.7	5.5	1.1	.0	.5	21.1	
10+	0-3	.3	.3	.5	.6	.9	.5	.9	.3	.0	1.9	6.1	
	4-10	.5	2.4	6.2	4.7	4.7	5.9	5.0	1.3	.0	.0	30.6	
	11-21	.2	1.6	7.0	2.8	2.2	5.9	7.8	.6	.0	.0	28.3	
	22+	*	.8	2.5	.2	.5	1.7	2.7	.1	.0	.0	8.5	
	TOT %	1.0	5.1	16.3	8.3	8.2	14.0	16.3	2.3	.0	1.9	73.5	
TOT OBS													3146
TOT PCT		1.3	6.1	21.8	11.8	10.7	18.4	23.4	3.6	.0	2.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.0	1.8	9.3	14.9	7.0	3.2	.7	.0	1.8	39.1	60.9	443
06009	.8	.0	2.5	8.8	15.4	8.2	1.6	.2	.8	1.0	39.4	60.6	487
12015	.0	.0	2.4	4.9	10.7	5.7	3.0	.4	.0	.2	27.3	72.7	506
18021	.4	.0	1.7	8.1	12.4	6.2	2.1	.2	.4	1.0	32.6	67.4	516
TOT	8	0	41	151	259	132	48	7	6	19	671	1281	1952
PCT	.4	.0	2.1	7.7	13.3	6.8	2.5	.4	.3	1.0	34.4	65.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	.3	.4	3.7	20.8	73.7	710
06009	.9	.4	1.1	3.9	20.5	73.3	797
12015	.3	.3	.4	3.4	19.7	76.0	762
18021	.5	.3	1.3	3.8	22.8	71.3	950
TOT	22	10	27	119	678	3219	
PCT	.7	.3	.8	3.7	21.1	73.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	2.5	14.7	26.7	58.5	434
06009	.8	3.6	15.2	26.0	58.8	473
12015	.0	2.4	9.8	19.3	70.9	492
18021	.4	2.4	13.1	21.2	65.7	504
TOT	8	52	250	441	1212	1903
PCT	.4	2.7	13.1	23.2	63.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
75/79	.0	.0	.0	.3	.2	.4	.2	.0	27	1.3
70/74	.0	.0	.0	.6	2.2	3.7	2.9	1.2	225	10.8
65/69	.0	.0	.0	2.0	6.4	12.8	15.7	11.0	1003	47.9
60/64	.0	.0	.1	1.8	5.8	8.6	10.3	7.2	708	33.8
55/59	.0	.0	.0	.3	1.0	1.8	1.3	1.4	123	5.9
50/54	.0	.0	.0	.0	.1	.0	.0	.1	6	.3
TOTAL	0	0	6	104	330	573	638	442	2093	100.0
PCT	.0	.0	.3	5.0	15.8	27.4	30.5	21.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.1	.3	.3	.2	.2	.2	.0	.0	.0
70/74	.2	1.3	3.2	.8	.8	1.8	1.9	.3	.0	.3
65/69	.7	3.4	11.3	4.9	4.4	9.0	11.8	1.0	.0	1.5
60/64	.5	1.5	5.1	3.6	4.4	7.4	8.9	1.4	.0	.9
55/59	.0	.1	.6	1.1	1.4	.8	1.4	.4	.0	.0
50/54	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
TOTAL	1.4	6.5	20.7	10.8	11.3	19.2	24.3	3.2	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	72	69	64	58	55	52	64.0	1300
06009	82	75	73	66	60	57	54	66.1	1728
12015	84	76	73	67	61	57	53	67.2	1283
18021	78	72	70	65	59	57	54	65.1	1757
TOT	84	75	72	66	59	56	52	65.6	6068

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.5	10.8	24.7	33.1	28.8	82	510
06009	.0	5.1	14.0	25.8	33.9	19.2	79	531
12015	.0	9.6	20.7	34.3	22.4	13.0	75	531
18021	.0	3.7	14.8	25.4	32.2	24.0	80	575
TOT	0	112	935	591	653	456	79	2147

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.1	.1	.3	*	12	*	.5
9/10	.0	.0	.0	.2	*	.2	*	12	*	.5
7/8	.0	.0	.2	.4	.9	.4	*	46	.1	1.9
6	.0	*	.2	.2	.6	.3	.0	31	.0	1.3
5	.0	.1	.4	1.2	1.0	.3	.0	68	.2	2.8
4	.0	.1	1.0	2.2	1.6	.1	*	115	.2	4.8
3	.1	.4	.8	3.0	1.8	.3	.0	145	.2	6.1
2	.0	.4	2.1	6.2	1.6	.1	*	242	.5	10.0
1	*	.3	2.9	6.3	1.3	.3	.0	257	.4	10.7
0	*	.6	5.4	7.5	1.4	.2	.0	349	.5	14.6
-1	.2	.5	5.3	5.2	1.0	*	.0	281	.2	12.0
-2	.1	1.0	4.9	3.6	.9	*	.0	244	.2	10.4
-3	*	1.2	3.0	1.7	.6	.0	.0	149	.1	6.4
-4	.1	1.2	2.1	1.7	.4	.0	.0	127	.0	5.5
-5	*	.6	1.3	.9	.3	.0	.0	76	.1	3.2
-6	.1	.4	.6	.5	.0	.0	.0	37	*	1.6
-7/-8	.5	.7	1.3	.6	.2	.0	.0	75	*	3.2
-9/-10	.1	.2	.3	.2	.0	.0	.0	18	.0	.8
-11/-13	*	.1	.3	.1	.0	.0	.0	14	.0	.6
-14/-16	*	.2	*	.0	.0	.0	.0	6	.0	.3
TOTAL	33	189	744	960	61	5		2305	67	2238
PCT	1.4	8.2	32.3	41.6	13.6	2.6	.2	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.1	.0	.0	.0	.0	.4	*	.3	.0	.0	.0	.0	.3
1-2	.1	.4	.0	.0	.0	.0	.4	.3	1.2	.2	.0	.0	.0	1.7
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.9	.6	.1	.0	.0	1.6
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.4	.6	.2	.0	.0	1.2
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	*	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
17-19	.0	.1	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.6	.3	.1	.0	.0	1.2	.3	2.8	1.9	.7	.1	.0	5.8

WGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	.8	.1	.0	.0	.0	1.3	.7	.5	*	.0	.0	.0	1.2
1-2	.1	3.5	1.4	.0	.0	.0	5.0	.3	2.4	.5	.0	.0	.0	3.2
3-4	.1	2.0	3.6	.3	.0	.0	6.0	.0	2.2	1.5	*	.0	.0	3.7
5-6	.0	.5	2.7	.8	.1	.0	4.1	.1	.5	1.0	*	.0	.0	1.6
7	.0	.0	.8	.6	.1	.0	1.5	.0	.1	.2	.2	.0	.0	.5
8-9	.0	.0	.6	.5	.2	.0	1.2	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.1	.1	.0	.3	.0	.1	.1	.3	.0	.0	.5
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.8	9.3	2.6	.4	.0	19.7	1.0	5.8	3.5	.7	.0	.0	11.0

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.7	1.4	.1	.0	.0	.0	2.1	.5	.9	.1	.0	.0	.0	1.5	
1-2	.4	3.1	.3	.0	.0	.0	3.8	.1	4.6	1.1	.0	.0	.0	5.9	
3-4	.0	1.4	1.1	.1	.0	.0	2.5	.1	2.2	2.5	.1	.0	.0	4.8	
5-6	.0	.7	1.0	.0	.0	.0	1.6	.0	.5	3.1	.7	.1	.0	4.2	
7	.0	.1	.6	.2	.1	.0	1.0	.0	.2	1.5	.5	.1	.0	2.4	
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.4	.2	.0	.0	.7	
10-11	.0	.0	.2	.1	.0	.0	.2	.0	.1	.1	.2	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.1	.0	.3	
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.1	.0	.2	.2	.0	.4	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.2	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	6.6	3.5	.5	.1	.0	11.7	.8	8.7	8.8	2.1	.5	.0	21.0	

W								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	1.4	.8	.0	.0	.0	.0	2.1	.3	.2	.0	.0	.0	.0	.4		
1-2	.1	3.4	1.5	.0	.0	.0	5.0	.1	1.0	.1	.0	.0	.0	1.1		
3-4	.1	2.4	3.8	.1	.0	.0	6.4	.0	.2	.2	.0	.0	.0	.4		
5-6	.0	.7	4.1	.9	.1	.0	5.8	.0	.0	.1	.0	.0	.0	.1		
7	.0	.1	1.9	.6	.1	.0	2.8	.0	.0	.3	.1	.0	.0	.3		
8-9	.0	.0	.4	.6	.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	1.5	7.5	11.7	2.7	.5	.0	24.0	.3	1.4	.7	.1	.0	.0	2.4		

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.3	5.0	.2	.0	.0	.0	13.6	1408
1-2	1.7	19.4	5.0	.0	.0	.0	26.1	
3-4	.3	11.1	13.1	.7	.0	.0	25.1	
5-6	.1	3.3	12.5	2.5	.3	.0	18.6	
7	.0	.6	5.5	2.3	.4	.0	8.8	
8-9	.0	.0	1.5	1.6	.4	.0	3.4	
10-11	.0	.1	.7	.9	.1	.0	1.8	
12	.1	.1	.1	.4	.1	.0	.8	
13-16	.0	.1	.2	.5	.3	.0	1.1	
17-19	.0	.1	.0	.3	.0	.0	.4	
20-22	.0	.0	.1	.0	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.4	39.8	39.0	9.2	1.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.4	2.8	5.8	5.5	3.5	1.7	.7	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	359	5
6-7	.1	.5	3.0	5.9	8.7	4.3	2.8	1.2	1.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	469	7
8-9	.0	.1	.8	3.7	5.5	3.9	3.3	1.9	2.2	.4	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	374	9
10-11	.0	.0	.6	.8	2.4	1.7	2.4	1.6	1.6	.8	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	203	10
12-13	.0	.0	.6	.1	.5	.4	.8	.4	.9	.2	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	75	11
>13	.0	.0	.0	.2	.5	.1	.2	.1	.8	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	42	12
INDET	1.1	1.1	1.2	.8	1.8	1.1	.4	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	5
TOTAL	27	74	199	284	382	221	175	97	129	38	18	4	9	1	0	0	0	0	0	0	1658	8
PCT	1.6	4.5	12.0	17.1	23.0	13.3	10.6	5.9	7.8	2.3	1.1	.2	.5	.1	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1854-1973

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	1.9	1.9	.0	.0	.0	.0	3.8	.0	1.9	5.8	.0	.0	.0	88.5
NE	.2	.0	.2	.0	.0	.0	.0	.4	.4	.5	.9	.0	1.6	.0	96.2
E	.4	.4	.6	.0	.0	.0	.0	1.4	.6	.7	2.7	.2	1.2	.0	93.2
SE	2.2	.4	.3	.0	.0	.0	.0	3.0	1.3	.1	1.1	.0	3.6	.0	90.9
S	2.2	1.9	2.4	.0	.0	.0	.0	6.6	1.1	.3	.8	.0	.9	.0	90.4
SW	.8	2.4	.6	.0	.0	.0	.0	3.8	1.9	.6	.5	.0	1.2	.0	92.0
W	.9	1.8	1.0	.0	.0	.0	.0	3.7	2.1	.1	4.3	.0	1.8	.0	88.0
NW	1.6	1.6	2.4	.0	.0	.0	.0	5.6	2.0	1.2	4.4	.0	.4	.0	86.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	.0	7.4	1.9	3.7	.0	85.2
TOT PCT	1.0	1.4	.9	.0	.0	.0	.0	3.3	1.4	.5	2.3	.1	1.6	.0	90.9
TOT OBS:	2208														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	.6	1.3	1.5	.0	.0	.0	.0	3.4	1.3	.6	1.9	.2	1.7	.0	90.8
06009	1.3	1.7	.8	.0	.0	.0	.0	3.8	2.2	.0	3.5	.2	1.3	.0	89.0
12015	.8	1.0	.3	.0	.0	.0	.0	2.2	.7	.0	2.4	.0	2.2	.0	92.6
18021	1.4	1.4	.9	.0	.0	.0	.0	3.7	1.2	1.2	1.6	.0	1.4	.0	90.8
TOT PCT	1.1	1.4	.9	.0	.0	.0	.0	3.3	1.4	.4	2.4	.1	1.7	.0	90.8
TOT OBS:	2283														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.4	.9	.3	.1	*	*		1.8	9.3		1.1	2.8	2.6	2.2	1.1	1.2	.9	2.0	
NE	.4	2.7	2.3	.7	.2	*		6.3	12.9		6.2	8.6	9.0	6.6	3.8	3.4	4.4	7.6	
E	.9	7.2	7.9	2.6	.2	*		18.9	13.3		22.6	16.3	16.8	15.6	20.3	17.1	22.2	20.1	
SE	1.0	5.9	4.1	.6	.1	.0		11.6	10.6		11.1	9.6	7.3	8.8	12.2	17.4	15.0	13.1	
S	1.3	5.7	2.6	.7	.1	.0		10.3	9.8		10.0	8.5	7.1	8.2	12.8	15.0	13.0	8.9	
SW	.9	7.4	6.5	2.8	.7	.2		18.6	14.5		18.5	15.6	15.6	19.0	23.4	20.5	20.0	16.7	
W	.9	7.4	7.9	5.3	2.1	.5		24.1	17.8		22.3	26.0	31.0	27.9	22.5	20.3	19.4	21.4	
NW	.5	2.1	1.2	.7	.2	.1		4.8	13.2		3.8	7.7	6.9	6.0	1.4	3.2	2.8	6.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.6							3.6	.0		4.4	4.5	3.9	5.7	2.4	1.8	2.4	4.0	
TOT OBS	575	2261	1890	777	207	50	5760		13.4		520	705	951	718	694	544	1046	582	
TOT PCT	10.0	39.3	32.8	13.5	3.6	.9		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	.8	.6	.3	*	*			1.8	9.3		2.1	2.4	1.2	1.3
NE	1.5	3.0	1.3	.4	.1			6.3	12.9		7.6	7.9	3.6	5.3
E	3.7	9.2	5.1	.9	*			18.9	13.3		19.0	16.3	18.9	21.5
SE	3.6	6.0	1.7	.3	*			11.6	10.6		10.2	7.9	14.5	14.3
S	4.2	4.5	1.4	.3	*			10.3	9.8		9.1	7.6	13.7	11.5
SW	4.0	8.2	4.5	1.5	.5			18.6	14.5		17.0	17.1	22.2	18.8
W	3.4	9.5	6.7	3.2	1.3			24.1	17.8		24.4	29.7	21.5	20.1
NW	1.2	2.2	.9	.4	.1			4.8	13.2		6.0	6.5	2.2	4.1
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	3.6							3.6	.0		4.5	4.7	2.2	2.9
TOT OBS	1502	2481	1260	395	122	5760			13.4		1225	1669	1238	1628
TOT PCT	26.1	43.1	21.9	6.9	2.1			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1854-1973

DECEMBER

AREA 0020 PORT ELIZABETH
34.4S 24.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
00003	4.5	7.3	43.3	29.3	11.8	3.3	.5	12.4	1225
06209	4.7	7.2	35.2	32.0	15.2	4.3	1.4	14.0	1669
12615	2.2	4.8	38.2	37.2	14.2	2.7	.8	13.7	1238
18621	2.9	6.0	41.1	33.0	12.5	3.8	.6	13.1	1628
TOT	208	367	2261	1890	777	207	50	13.4	5760
PCT	3.6	6.4	39.3	32.8	13.5	3.6	.9	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.3	.3	.3	.2		4.4
NE	3.7	1.1	1.5	.8		3.2
E	11.4	3.6	4.4	1.9		3.0
SE	3.7	2.1	2.4	1.7		3.8
S	4.5	2.6	2.9	1.4		3.7
SW	7.3	4.7	7.0	2.8		4.1
W	7.2	4.7	7.8	3.1		4.2
NW	.9	.1	.7	.5		4.3
VAR	.0	.0	.0	.0		.0
CALM	1.3	.3	.4	.4		3.0
TOT OBS	693	335	471	219	1718	3.7
TOT PCT	40.3	19.5	27.4	12.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.2	.1	.1	*	*	.0	.0	.7	
.1	.0	*	.3	.3	.2	.1	.1	.1	.1	5.8	
.1	.1	.1	.8	1.5	.7	.3	.1	.2	.2	17.2	
.0	*	.3	.7	1.0	.6	.1	*	.1	*	6.9	
.0	.0	.1	.5	.7	.8	.4	.1	*	*	8.7	
.1	.1	.5	1.1	2.3	1.8	.4	.3	.2	.2	15.0	
.2	.1	.3	1.3	3.3	1.5	.5	*	.1	.2	15.3	
.1	.0	.1	.1	.4	.2	*	.1	.0	.0	1.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.2	.1	.0	.1	.0	.1	.0	1.9	
9	5	26	91	168	102	33	13	11	13	1247	1718
.5	.3	1.5	5.3	9.8	5.9	1.9	.8	.6	.8	72.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.9	1.4	1.5	1.5	1.5	1.5	1.5	1.5
>3000	1.6	2.1	2.3	2.3	2.3	2.3	2.3	2.3
>3500	3.2	4.1	4.2	4.2	4.2	4.2	4.2	4.2
>2000	8.0	9.9	10.1	10.1	10.1	10.1	10.1	10.1
>1000	15.6	19.3	20.0	20.0	20.0	20.0	20.0	20.0
>600	18.8	24.4	25.3	25.3	25.3	25.3	25.3	25.3
>300	19.6	25.6	26.7	26.8	26.8	26.8	26.8	26.8
>150	19.7	25.9	27.0	27.1	27.1	27.1	27.1	27.1
>0	19.7	26.0	27.3	27.6	27.6	27.6	27.6	27.6
TOTAL	350	461	484	489	489	489	489	489

TOTAL NUMBER OF OBS: 1774

PCT FREQ NH <5/8: 72.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.0	20.1	14.3	10.5	8.6	5.2	6.8	5.7	9.6	.3	1875

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1854-1973

DECEMBER

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	.1	.0	.0	*	.2	*	.0	*	.4	
	TOT %	*	.0	.1	.0	.0	*	.2	*	.0	*	.4	
1/2<1	PCP	*	.0	.0	.0	*	*	.1	*	.0	.0	.2	
	NO PCP	.0	.0	*	*	.0	.0	*	.0	.0	.0	.1	
	TOT %	*	.0	*	*	*	*	.1	*	.0	.0	.3	
1<2	PCP	*	*	*	.1	.1	.0	.1	*	.0	.0	.3	
	NO PCP	.0	*	.1	.1	.1	.2	.2	*	.0	.0	.6	
	TOT %	*	.1	.1	.2	.2	.1	.3	*	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.1	.1	*	.0	*	.0	.0	.3	
	NO PCP	.0	*	.3	.1	.1	.2	.8	*	.0	.2	1.8	
	TOT %	.0	*	.3	.2	.2	.2	.8	.1	.0	.2	2.1	
5<10	PCP	.0	*	.1	.1	.5	.5	.5	*	.0	*	1.9	
	NO PCP	.3	1.0	2.4	1.9	1.7	3.6	5.2	.7	.0	.3	17.0	
	TOT %	.3	1.0	2.5	2.0	2.1	4.1	5.7	.7	.0	.3	18.9	
10+	PCP	.0	.0	.1	*	.1	.2	.1	*	.0	.0	.7	
	NO PCP	.8	5.2	17.2	7.8	9.0	16.9	16.0	1.9	.0	1.9	76.7	
	TOT %	.8	5.2	17.4	7.9	9.1	17.1	16.1	1.9	.0	1.9	77.4	
TOT OBS													2206
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	*	*	*	.0	.0	.0	.0	.0	.1	.1		
	4-10	.0	.0	.1	*	.0	*	.1	.0	.0		.3		
	11-21	.0	.0	.1	.0	.0	.0	.1	*	.0		.2		
	22+	* TDT %	.0 *	.0 *	.0 .2	.0 .1	.0 *	.0 *	.0 .2	.0 .1	.0 .0	* .1	* .6	
	1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
4-10		.0	.0	*	*	*	*	.1	*	.0		.2		
11-21		* TDT %	.0 *	.0 *	.0 .1	.0 *	.0 *	.0 .1	.0 *	.0 *	.0 *	* .3		
1<2		0-3	*	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
		4-10	.0	*	.1	.1	*	.1	.1	*	.0		.4	
	11-21	.0	*	*	*	*	*	.2	.0	.0		.3		
	22+	* TDT %	.0 *	.0 *	.0 .1	.0 .2	.0 .1	.0 .3	.0 *	.0 *	.0 *	* .9		
	2<5	0-3	.0	.0	.0	*	*	.0	.1	*	.0	.1	.3	
4-10		.0	*	.2	.1	.1	.1	.3	.1	.0		.9		
11-21		.0	.1	.2	.1	.1	.2	.5	*	.0		1.1		
22+		.0	*	.1	.1	.1	.1	.1	.0	.0		.4		
TOT %		.0	.1	.5	.3	.3	.3	1.0	.1	.0	.1	2.7		
5<10	0-3	.1	*	.2	.1	.2	.1	.1	.1	.0	.3	1.1		
	4-10	.1	.3	.9	.9	.8	1.0	1.2	.3	.0		5.5		
	11-21	.1	.4	1.3	1.1	.6	1.2	1.9	.3	.0		6.8		
	22+	.0	.1	.5	.1	.3	1.5	2.2	.1	.0		4.9		
	TOT %	.3	.9	2.9	2.2	1.8	3.8	5.5	.8	.0	.3	18.3		
10+	0-3	.3	.2	.5	.7	.9	.6	.2	.4	.0	2.3	6.2		
	4-10	.3	2.3	6.6	4.7	5.8	6.9	5.1	1.3	.0		33.0		
	11-21	.1	2.3	8.3	2.5	1.9	6.7	7.0	.5	.0		29.4		
	22+	* TDT %	.3 .8	1.7 5.1	1.7 17.1	.1 8.0	1.4 9.0	2.1 16.3	3.7 16.0	.1 2.3	.0 *.0	.0 2.3	8.5 77.1	
	TDT OBS													2917
TDT PCT													100.0	

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PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1854-1973AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.0	2.1	6.4	10.1	6.9	2.1	.9	.9	.5	30.2	69.8	437
06009	.6	.6	1.1	5.1	12.2	6.5	1.7	.6	.4	1.3	30.2	69.8	474
12015	.8	.2	1.0	2.4	7.0	4.2	1.6	.4	1.0	.8	19.5	80.5	498
18021	.0	.2	1.8	6.8	8.8	5.4	2.0	.9	.2	.7	27.0	73.0	441
TOT	9	5	27	94	176	106	34	13	12	15	491	1359	1850
PCT	.5	.3	1.5	5.1	9.5	5.7	1.8	.7	.6	.8	26.5	73.5	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	.1	.6	1.9	16.8	79.7	689
06009	1.1	.8	1.1	3.7	17.3	76.1	758
12015	.6	.3	1.1	2.9	16.4	78.8	720
18021	.2	.1	.8	2.3	23.5	73.0	826
TOT	20	10	27	81	559	2296	2993
PCT	.7	.3	.9	2.7	18.7	76.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	2.6	10.0	21.6	68.4	421
06009	.7	2.4	10.3	22.3	67.5	458
12015	.8	2.3	6.1	15.2	78.7	475
18021	.0	2.1	10.2	18.6	71.2	420
TOT	9	42	161	343	1270	1774
PCT	.5	2.4	9.1	19.3	71.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.2	.1	.2	.1	.0	8	.4
75/79	.0	.0	.1	.5	.8	1.4	1.0	.4	78	4.0
70/74	.0	.0	.1	1.2	5.3	10.3	9.7	6.6	648	33.2
65/69	.0	.0	.1	1.7	7.8	16.0	16.4	6.8	952	48.7
60/64	.0	.0	.1	.7	2.8	3.4	3.5	2.3	249	12.7
55/59	.0	.0	.0	.1	.4	.3	.1	.1	19	1.0
TOTAL	0	0	5	85	335	615	599	315	1954	100.0
PCT	.0	.0	.3	4.4	17.1	31.5	30.7	16.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.1	.3	.0	.1	.0	.0	.0	.0	.0
75/79	.1	.5	1.3	.4	.7	.5	.4	.0	.0	.2
70/74	.2	2.5	8.5	4.2	4.0	6.7	5.0	.8	.0	1.2
65/69	.6	3.1	9.3	4.3	4.7	11.3	13.2	1.3	.0	1.0
60/64	.1	.2	1.1	.8	1.7	3.8	4.5	.3	.0	.2
55/59	.0	.0	.1	.2	.4	.2	.2	.0	.0	.0
TOTAL	1.0	6.4	20.5	9.9	11.5	22.4	23.3	2.8	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	74	72	67	61	59	55	66.7	1224
06009	86	79	76	69	63	60	54	69.2	1646
12015	85	79	76	70	64	60	56	70.0	1215
18021	80	76	73	68	62	59	53	67.9	1610
TOT	86	78	75	68	62	59	53	68.5	5695

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.1	9.2	28.0	36.8	23.8	82	478		
06009	.0	4.6	15.4	31.8	31.8	16.4	78	519		
12015	.0	8.0	26.3	32.6	24.8	8.4	74	525		
18021	.0	2.8	16.1	31.0	30.6	19.6	79	504		
TOT	0	90	343	626	625	342	78	2026		

DECEMBER

PERIOD: (PRIMARY) 1973-1973
(OVER-ALL) 1954-1973

TABLE 17

AREA 0020 PORT ELIZABETH
34.4S 24.1E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	*	.1	3	.0	.1
11/13	.0	.0	.0	.0	*	.2	.2	*	10	.0	.5
9/10	.0	.0	.0	*	.1	.2	.3	*	14	*	.6
7/8	.0	.0	.0	.0	.2	.6	.5	.0	26	.0	1.2
6	.0	.0	*	.1	.2	.2	.3	.0	19	.0	.9
5	.0	.0	*	.5	.8	1.0	.1	.0	52	.0	2.5
4	.0	.0	.2	.6	1.4	1.2	*	.0	74	.1	3.4
3	.0	.0	.2	.6	2.2	1.9	.0	.0	83	.2	3.8
2	.0	*	.6	2.6	4.0	1.8	.1	*	192	.2	8.9
1	.0	*	.9	4.0	7.2	1.0	.1	.0	281	.5	12.9
0	.0	.1	1.1	6.8	7.3	1.2	.1	.0	349	.5	16.1
-1	.0	*	1.0	6.1	4.6	.5	.0	.0	255	.2	11.9
-2	.0	.1	2.2	6.2	2.7	.4	.0	.0	244	.2	11.4
-3	.0	.0	1.3	4.4	1.6	.2	.0	.0	158	.2	7.3
-4	.0	.1	1.0	2.6	1.2	.1	.0	.0	107	.1	5.0
-5	.0	.3	1.6	1.5	.7	*	.0	.0	87	*	4.1
-6	*	.2	.7	.8	.2	.0	.0	.0	43	*	2.0
-7/-8	*	.4	1.0	.8	.4	.0	.0	.0	57	.0	2.7
-9/-10	*	.2	.4	.7	.1	.0	.0	.0	30	.0	1.4
-11/-13	.1	.1	.1	.1	*	.0	.0	.0	11	.0	.5
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	5	36	263	809	738	202	5	2097	51	2046	
PCT	.2	1.7	12.5	38.6	35.2	9.6	1.9	.2	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.1	.0	.0	.0	.3	.1	.8	.0	.0	.0	.0	.0	.9
1-2	.1	.1	.0	.0	.0	.0	.2	.2	1.1	.8	.0	.0	.0	.0	2.1
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.7	1.1	.1	.0	.0	.0	1.9
5-6	.0	.0	.2	.0	.0	.0	.2	.0	*	.8	*	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.3	.3	.0	.0	.0	.9	.3	2.6	3.4	.5	.0	.0	.0	6.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1	.5	.9	.0	.0	.0	.0	.0	1.4
1-2	.4	5.7	1.4	.0	.0	.0	7.5	.4	3.5	.9	.0	.0	.0	.0	4.8
3-4	.0	2.0	4.4	.2	.0	.0	6.6	.0	1.2	1.3	.1	.0	.0	.0	2.6
5-6	.0	.3	3.2	.4	.1	.0	4.1	.0	.3	.7	*	.0	.0	.0	1.0
7	.0	.0	1.1	.4	.0	.0	1.4	.0	.1	.4	*	.0	.0	.0	.5
8-9	.0	.0	.5	.8	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	8.9	10.8	2.4	.1	.0	22.8	.9	6.1	3.4	.1	.0	.0	.0	10.4

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0020 PORT ELIZABETH
34.45 24.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	1.1	.3	.9	.0	.0	.0	.0	1.2
1-2	.3	3.7	.6	.0	.0	.0	4.7	.2	4.4	1.2	.0	.0	.0	5.8
3-4	.1	1.9	.8	.2	.0	.0	2.9	.0	2.1	3.0	.4	.0	.0	5.5
5-6	.0	.7	.9	.0	.0	.0	1.6	.0	.7	3.0	.6	.2	.0	4.5
7	.0	.1	.4	.2	.0	.0	.7	.0	.1	1.6	.7	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.3	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.9	2.7	.4	.0	.0	11.0	.5	8.2	9.7	3.0	.5	.0	21.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.1	.0	.0	.0	.7	.3	.1	.0	.0	.0	.0	.4	
1-2	.1	3.4	1.1	.0	.0	.0	4.5	.0	.6	.2	.0	.0	.0	.8	
3-4	.0	1.7	2.4	.3	.0	.0	4.4	.0	.3	.1	.0	.0	.0	.3	
5-6	.0	.5	2.8	.7	.0	.0	4.0	.0	.1	.1	.0	.1	.0	.3	
7	.0	.0	2.6	1.3	.1	.0	4.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.1	.4	.5	.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.1	.3	.9	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.3	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.3	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	6.2	10.0	4.4	.7	.0	21.4	.3	1.1	.4	.1	.1	.0	2.0	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.1	4.5	.2	.0	.0	.0	10.7	
1-2	2.3	22.4	6.1	.0	.0	.0	30.7	
3-4	.1	9.9	12.9	1.2	.0	.0	24.0	
5-6	.0	2.6	11.6	1.7	.3	.0	16.2	
7	.0	.2	6.4	2.8	.1	.0	9.5	
8-9	.0	.2	1.3	1.8	.3	.0	3.5	
10-11	.0	.1	.7	1.3	.0	.0	2.0	
12	.0	.0	.2	.9	.1	.0	1.1	
13-16	.0	.0	.5	.6	.2	.0	1.3	
17-19	.0	.0	.0	.2	.2	.0	.4	
20-22	.0	.0	.1	.0	.2	.0	.2	
23-25	.0	.0	.0	.1	.1	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.4	39.8	39.8	10.6	1.4	.0	100.0	1269

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	4.4	6.4	5.8	3.7	1.8	.6	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	370	5
6-7	.0	.6	3.6	6.9	6.0	3.5	3.5	1.4	1.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	429	7
8-9	.0	.2	.9	3.7	4.7	3.5	2.6	1.2	2.4	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	316	9
10-11	.0	.2	.5	.9	1.0	1.5	2.0	1.2	1.3	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	146	10
12-13	.0	.0	.4	.8	.5	1.0	1.5	.2	1.2	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	94	10
>13	.0	.0	.0	.1	.6	.3	.4	.3	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	35	11
INDET	1.1	1.2	2.7	1.5	1.1	.8	1.0	.6	.4	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	165	5
TOTAL	26	102	225	307	273	193	180	78	117	28	15	3	7	1	0	0	0	0	0	1553	7
PCT	1.7	6.6	14.5	19.7	17.6	12.4	11.6	5.0	7.5	1.8	1.0	.2	.5	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1872-1973
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.6	1.0	.6	.0	.0	.0	.0	3.2	.7	2.3	3.2	.1	2.4	.0	88.4
NE	1.0	.4	.4	.0	.0	.0	*	1.8	.3	2.4	1.5	.1	2.1	*	91.9
E	1.0	.6	1.0	.0	.0	.0	*	2.5	.9	1.5	1.6	.1	2.2	*	91.3
SE	2.8	2.5	1.4	.0	.0	.0	.0	6.3	3.3	.5	1.5	.1	1.5	.0	86.9
S	3.1	3.3	1.5	.0	.0	.0	.0	7.8	4.5	.6	1.6	.0	.6	.0	84.9
SW	2.6	3.4	1.4	.0	.0	.0	*	7.4	3.9	1.1	1.4	.0	1.0	.1	85.1
W	2.1	2.5	1.2	.0	.0	.0	*	5.8	3.5	1.3	2.2	.1	1.4	.1	85.9
NW	1.7	2.1	1.2	.0	.0	.0	*	5.0	1.7	2.2	2.5	.2	2.0	*	86.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	.5	.5	.0	.0	.0	.0	2.2	.4	2.3	6.7	.5	3.4	.0	84.7
TOT PCT	1.9	2.0	1.1	.0	.0	.0	*	5.0	2.5	1.4	1.9	.1	1.5	.1	87.6
TOT OBS: 25665															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.0	2.2	1.6	.0	.0	.0	*	5.7	2.6	2.6	1.5	.1	.9	.1	86.6
0600	2.1	2.1	1.1	.0	.0	.0	*	5.2	2.9	.5	2.7	.1	1.7	.1	86.8
1200	1.5	1.7	1.0	.0	.0	.0	*	4.1	2.3	.1	1.9	.1	2.2	.1	89.2
1800	2.0	2.1	.9	.0	.0	.0	.0	4.9	2.3	2.6	1.7	.1	1.3	*	87.3
TOT PCT	1.9	2.0	1.1	.0	.0	.0	*	5.0	2.5	1.4	2.0	.1	1.6	.1	87.5
TOT OBS: 26575															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)								TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+						00	03	06	09	12	15	18	21
N	.6	2.1	1.0	.3	.1	*		4.0	9.7	3.2	5.6	5.2	4.8	2.9	3.0	2.7	4.9		
NE	.6	3.2	2.9	1.2	.2	*		8.2	13.4	8.7	9.4	9.7	8.3	5.8	6.4	7.2	10.8		
E	1.0	6.2	7.1	2.6	.4	*		17.4	13.7	18.5	16.1	16.0	13.5	17.9	17.8	20.3	19.1		
SE	.7	3.8	2.8	.7	.1	*		8.2	11.7	7.4	7.1	6.1	7.1	7.8	11.0	10.4	8.3		
S	.9	3.6	2.2	.7	.2	*		7.5	11.9	7.5	6.4	6.3	6.8	8.0	9.5	9.0	6.8		
SW	.9	5.5	5.1	2.4	.9	.2		15.0	15.6	15.2	12.2	12.5	14.5	17.4	17.8	17.7	12.5		
W	1.2	7.8	9.8	5.7	2.4	.9		27.8	17.9	29.2	27.0	30.3	30.5	30.7	25.2	24.2	24.6		
NW	.6	3.4	2.3	1.1	.5	.3		8.2	14.5	5.7	11.3	10.1	11.1	6.5	6.5	4.9	8.7		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.7							3.7	.0	4.6	4.9	3.6	3.5	2.9	2.7	3.7	4.2		
TOT OBS								67235		5899	7915	10602	9116	8341	6283	12425	6654		
TOT PCT	10.3	35.6	33.2	14.7	4.7	1.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	1.7	1.7	.6	.1	*		4.0	9.7	4.5	5.0	3.0	3.4		
NE	2.1	3.5	2.1	.5	.1		8.2	13.4	9.1	9.0	6.1	8.5		
E	3.5	7.6	5.0	1.1	.1		17.4	13.7	17.1	14.8	17.8	19.9		
SE	2.4	3.9	1.5	.3	*		8.2	11.7	7.2	6.6	9.2	9.7		
S	2.6	3.2	1.3	.4	.1		7.5	11.9	6.9	6.5	8.6	8.2		
SW	3.2	6.2	3.6	1.5	.6		15.0	15.6	13.5	13.4	17.6	15.9		
W	4.2	10.3	7.7	3.7	1.8		27.8	17.9	27.9	30.5	28.4	24.4		
NW	2.2	3.2	1.6	.7	.5		8.2	14.5	8.9	10.6	6.5	6.3		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.7						3.7	.0	4.7	3.5	2.8	3.9		
TOT OBS							67235		13814	19718	14624	19079		
TOT PCT	25.5	39.6	23.4	8.3	3.2		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47				
0000	4.7	6.6	37.2	32.0	13.9	4.3	1.3	13.8	100.0	13814
0600	3.5	6.9	33.5	32.7	15.7	5.6	2.1	15.0	100.0	19718
1200	2.8	6.1	35.0	35.2	15.0	4.6	1.3	14.5	100.0	14624
1800	3.9	6.7	37.2	33.1	13.9	4.1	1.2	13.7	100.0	19079
TOT								14.3		67235
PCT	3.7	6.6	35.6	33.2	14.7	4.7	1.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL DBS	MEAN CLOUD COVER
N	1.7	.4	.6	.2		3.2
NE	5.1	1.1	1.3	.7		2.6
E	10.2	2.8	3.4	2.1		2.8
SE	2.2	1.3	1.9	1.4		4.1
S	2.3	1.5	2.4	1.7		4.5
SW	5.3	3.3	5.5	3.1		4.3
W	9.7	5.9	9.9	5.3		4.3
NW	2.2	.7	1.2	.6		3.7
VAR	.0	.0	.0	.0		.0
CALM	2.0	.4	.5	.4		2.6
TOT DBS					19191	3.8
TOT PCT	40.6	17.3	26.6	15.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	DBS
*	.0	*	.1	.1	.1	.1	*	*	*	*	2.4
*	*	.1	.2	.5	.3	.1	*	*	*	.1	6.9
.1	*	.2	.8	1.6	.7	.3	.1	*	*	.1	14.6
*	*	.2	.7	1.9	.6	.2	*	*	*	*	4.2
.1	*	.1	.7	1.3	.6	.2	.1	*	*	*	4.8
.1	*	.4	1.3	2.5	1.3	.5	.1	.1	.1	.1	10.6
.1	.1	.6	2.5	4.4	2.4	.8	.2	.2	.3	.3	19.3
*	*	.1	.2	.5	.3	.1	*	*	*	*	3.4
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
*	.0	*	.1	.2	.1	.1	*	*	*	*	2.5
.5	.2	1.6	6.6	11.9	6.5	2.3	.6	.5	.7	68.7	19191
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.4	1.7	1.8	1.8	1.8	1.8	1.8	1.8
>3500	3.1	3.9	4.0	4.0	4.0	4.0	4.0	4.0
>2000	8.2	10.1	10.5	10.5	10.5	10.5	10.5	10.5
>1000	16.8	21.4	22.2	22.3	22.4	22.4	22.4	22.4
>600	20.5	27.4	28.6	28.8	28.8	28.9	28.9	28.9
>300	21.2	28.6	30.2	30.4	30.4	30.5	30.5	30.5
>150	21.2	28.8	30.4	30.6	30.6	30.7	30.7	30.7
>0	21.3	28.9	30.6	30.8	30.9	31.0	31.1	31.1

TOTAL NUMBER OF OBS: 19814

PCT FREQ NH <5/8: 68.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL DBS
23.2	16.5	11.8	9.3	7.4	5.6	7.0	7.0	11.8	.4	20940

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	.0	*	*	.0	.0	.0	*	
	NO PCP	*	*	.1	*	*	*	.1	*	.0	.1	.5	
	TOT %	*	*	.1	*	*	*	.2	*	.0	.1	.5	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	TOT %	*	*	.1	*	*	*	.1	*	.0	*	.3	
1<2	PCP	*	*	*	*	*	*	.1	*	.0	.0	.2	
	NO PCP	*	.1	.2	*	*	.1	.2	.1	.0	*	.6	
	TOT %	*	.1	.2	*	.1	.1	.2	.1	.0	*	.8	
2<5	PCP	.0	*	.1	.1	.1	.2	.2	*	.0	*	.8	
	NO PCP	*	.1	.2	.1	.1	.2	.6	.1	.0	.1	1.4	
	TOT %	*	.1	.3	.2	.2	.4	.8	.1	.0	.1	2.2	
5<10	PCP	.1	.1	.2	.2	.3	.6	.9	.1	.0	*	2.5	
	NO PCP	.6	1.5	3.3	1.5	1.3	3.1	5.9	1.3	.0	.5	19.0	
	TOT %	.6	1.6	3.6	1.7	1.6	3.7	6.9	1.4	.0	.5	21.6	
10+	PCP	*	*	.1	.1	.2	.4	.5	.1	.0	*	1.4	
	NO PCP	2.3	6.4	13.8	5.1	5.8	12.1	21.6	3.9	.0	2.2	73.2	
	TOT %	2.3	6.4	13.9	5.2	5.9	12.5	22.1	4.0	.0	2.2	74.6	
TOT OBS													25632
TOT PCT													3.0 8.2 18.1 7.2 7.9 16.8 30.3 5.6 .0 2.9 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	.0	*	*	*	.0	.1	.2	
	4-10	*	*	.1	*	*	*	.1	*	.0	*	.3	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	*	*	.0	.0	.0	*	*	*	.0	*	*	
	TOT %	*	*	.1	*	*	*	.2	*	.0	.1	.6	
1/2<1	0-3	*	*	*	.0	.0	*	*	.0	.0	*	.1	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	*	*	*	*	*	*	*	*	.0	*	.1	
	22+	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	.1	*	.0	*	.3	
1<2	0-3	*	*	*	.0	*	*	*	*	.0	*	.1	
	4-10	*	*	.1	*	*	*	*	*	.0	*	.3	
	11-21	*	*	.1	*	*	*	.1	*	.0	*	.3	
	22+	*	*	*	*	*	*	.1	*	.0	*	.2	
	TOT %	*	.1	.2	.1	.1	.1	.2	.1	.0	*	.8	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.2	
	4-10	*	*	.1	.1	.1	.1	.2	.1	.0	*	.8	
	11-21	*	*	.2	.1	.1	.2	.3	*	.0	*	.9	
	22+	*	*	.1	*	.1	.2	.4	.1	.0	*	.8	
	TOT %	*	.1	.4	.2	.2	.5	.9	.2	.0	.1	2.7	
5<10	0-3	.1	.1	.2	.1	.1	.1	.2	.1	.0	.6	1.6	
	4-10	.3	.5	1.1	.6	.6	1.1	1.6	.6	.0	*	6.4	
	11-21	.1	.5	1.5	.6	.5	1.3	2.4	.5	.0	*	7.5	
	22+	.1	.3	.7	.2	.2	1.0	2.2	.2	.0	*	4.9	
	TOT %	.6	1.5	3.4	1.6	1.5	3.5	6.4	1.4	.0	.6	20.4	
10+	0-3	.4	.5	.6	.4	.6	.7	.7	.3	.0	2.6	6.8	
	4-10	1.5	2.9	5.2	3.0	3.3	4.9	6.8	2.4	.0	*	29.9	
	11-21	.5	2.4	6.2	1.8	1.6	4.8	9.4	1.3	.0	*	27.9	
	22+	.1	.7	1.9	.2	.3	1.9	5.1	.4	.0	*	10.6	
	TOT %	2.5	6.4	13.9	5.4	5.7	12.3	21.9	4.4	.0	2.6	75.2	
TOT OBS													33263
TOT PCT													3.2 8.1 18.0 7.4 7.6 16.5 29.7 6.2 .0 3.5 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL NH <5/8 ANY HGT	TOTAL OBS
00003	.6	.1	1.3	7.0	11.6	6.1	2.2	.7	.6	.7	30.9	69.1 4771
06009	.6	.4	1.8	7.2	13.8	8.2	2.3	.7	.4	.9	36.4	63.6 5110
12015	.4	.1	1.5	5.0	9.5	5.3	2.2	.5	.4	.6	25.6	74.4 5006
18021	.2	.1	1.6	6.1	11.3	5.7	1.9	.5	.4	.7	28.6	71.4 5012
TOT PCT	.5	.2	1.6	6.3	11.5	6.3	2.2	.6	.4	.7	30.2	20499 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.2	.4	2.2	19.0	77.5	7548
06009	.9	.4	1.1	2.9	21.0	73.6	8458
12015	.5	.3	.9	2.8	19.1	76.5	8426
18021	.5	.3	.9	2.6	22.1	73.7	9755
TOT PCT	.6	.3	.8	2.6	20.4	75.2	34187 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.7	2.2	10.6	21.8	67.7	4606
06009	.6	3.1	12.2	25.9	61.9	4937
12015	.4	2.2	9.1	18.1	72.9	5426
18021	.3	2.1	9.8	20.3	69.9	4845
TOT PCT	.5	2.4	10.4	21.4	68.2	19814 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	*	*	.0	.0	.0	*	.0
80/84	*	*	*	*	.1	.1	*	*	.3	.0
75/79	.0	*	.1	.2	.4	.9	.6	.2	2.4	.1
70/74	*	*	.2	.6	2.8	4.9	5.5	3.4	17.4	.5
65/69	.0	*	.2	1.6	4.7	9.4	10.4	6.2	32.5	1.0
60/64	.0	*	.2	1.4	5.4	9.3	11.0	6.6	33.9	1.0
55/59	.0	.0	*	.8	2.7	3.8	3.3	1.8	12.4	.3
50/54	.0	.0	.0	*	.1	.2	.3	.3	.9	.0
45/49	.0	.0	.0	.0	*	*	*	*	.1	.0
TOTAL PCT	*	.1	.7	4.7	16.3	28.5	31.2	18.5	21680	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	*	.0	*	.0	.0	.0	.0
80/84	*	*	.1	*	*	*	.1	*	.0	.0
75/79	.1	.3	.6	.2	.3	.4	.4	.1	.0	.1
70/74	.5	1.5	4.2	1.7	1.6	3.0	3.7	.6	.0	.5
65/69	1.0	3.0	7.1	2.6	2.4	5.6	8.4	1.4	.0	.9
60/64	1.0	2.5	5.2	1.7	2.1	5.4	12.5	2.3	.0	1.2
55/59	.3	.7	1.0	.7	1.3	2.2	5.0	.8	.0	.3
50/54	*	*	*	.1	.2	.3	.3	*	.0	*
45/49	*	*	.0	*	*	*	*	.0	.0	.0
TOTAL	2.9	8.1	18.1	7.1	7.8	17.0	30.5	5.3	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	73	70	64	59	56	47	64.3	13696
06009	87	77	73	66	60	56	45	66.0	19323
12015	86	77	74	67	61	57	46	66.8	14406
18021	87	74	71	65	59	56	47	65.2	18811
TOT	87	76	72	65	59	56	45	65.6	66236

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	*	3.1	11.5	25.5	34.8	25.1	81	5291
06009	.0	5.3	14.9	27.8	32.5	19.5	79	5541
12015	.0	9.2	23.0	31.7	25.6	10.4	75	5844
18021	.0	3.7	14.7	28.4	32.4	20.8	80	5800
TOT	2	1224	3658	6407	7008	4177	79	22476

PERIOD: (PRIMARY) 1872-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	2	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	4	.0	*
14/16	.0	.0	.0	.0	*	.0	*	*	*	*	*	27	*	.1
11/13	.0	.0	.0	.0	*	.1	.1	.1	.1	*	*	100	*	.4
9/10	.0	.0	.0	*	*	.1	.2	.2	.1	*	*	154	*	.6
7/8	.0	.0	.0	*	.1	.2	.5	.3	.2	*	.0	319	*	1.3
6	.0	.0	*	*	.1	.3	.4	.3	.1	.0	.0	274	*	1.1
5	.0	.0	.0	*	.3	.7	.7	.5	.1	.0	.0	558	.1	2.3
4	.0	.0	.0	*	.6	1.2	1.0	.5	.1	*	.0	846	.1	3.4
3	.0	.0	*	*	.9	1.8	1.1	.7	*	*	.0	1138	.1	4.6
2	.0	.0	*	*	2.2	2.7	1.9	.7	.1	*	.0	1916	.2	7.7
1	.0	.0	*	*	5	2.9	3.3	2.6	.7	.1	.0	2466	.3	9.9
0	.0	.0	.1	1.1	5.0	4.0	3.1	.7	.1	*	.0	3400	.4	13.6
-1	.0	.0	.1	1.8	4.3	3.1	2.3	.4	*	.0	.0	2938	.2	11.9
-2	.0	.0	.2	2.2	3.8	2.8	1.6	.4	*	.0	.0	2671	.2	10.8
-3	.0	.0	.2	2.1	2.5	2.0	1.0	.2	*	.0	.0	1960	.1	8.0
-4	.0	*	.3	2.0	1.9	1.6	.7	.2	*	.0	.0	1644	.1	6.7
-5	.0	*	.4	1.7	1.4	1.1	.5	.1	*	.0	.0	1266	.1	5.1
-6	.0	*	.3	.9	.9	.6	.2	*	.0	.0	.0	741	*	3.0
-7/-8	*	.1	.6	1.2	1.2	.7	.3	*	.0	.0	.0	1000	*	4.1
-9/-10	*	.1	.3	.6	.6	.4	.1	*	.0	.0	.0	512	*	2.1
-11/-13	*	.1	.2	.3	.3	.1	*	.0	.0	.0	.0	247	*	1.0
-14/-16	*	*	.1	.1	.1	*	.0	.0	.0	.0	.0	86	*	.3
-17/-19	.0	*	*	*	.0	.0	.0	.0	.0	.0	.0	16	*	.1
TOTAL												24285		
PCT	*	.3	2.8	15.2	29.2	26.9	18.3	6.0	1.1	.2	*	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N													NE												
WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT											
41	.2	.3	*	.0	.0	.0	.5	.2	.4	*	.0	.0	.0	.6											
1-2	.1	.8	.1	.0	.0	.0	1.0	.1	1.8	.4	.0	.0	.0	2.4											
3-4	.0	.3	.2	*	.0	.0	.5	*	.8	1.2	.2	.0	.0	2.2											
5-6	.0	*	.1	*	.0	.0	.2	.0	.2	.9	.3	*	.0	1.4											
7	.0	.0	*	*	.0	.0	*	*	.4	.2	*	.0	.0	.7											
8-9	.0	.0	.0	*	.0	.0	*	.0	*	.1	.2	*	*	.3											
10-11	.0	*	*	.0	.0	.0	*	.0	*	*	.1	*	.0	.2											
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*											
13-16	.0	.0	.0	*	*	*	*	.0	.0	*	*	*	.0	.1											
17-19	.0	*	*	.0	*	*	.0	*	*	*	*	*	*	.0											
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*											
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*											
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*											
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
TOT PCT	.3	1.4	.6	.1	*	.0	2.4	.4	3.2	3.2	1.0	.1	*	7.8											

E													SE												
WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT											
41	.3	.8	*	.0	.0	.0	1.2	.2	.4	*	.0	.0	.0	.7											
1-2	.3	3.5	.9	.0	.0	.0	4.7	.2	2.0	.5	.0	.0	.0	2.7											
3-4	*	1.8	2.9	.3	.0	.0	5.1	*	.9	.9	*	.0	.0	1.9											
5-6	.0	.3	2.6	.6	*	.0	3.5	*	.3	.6	.1	.0	.0	.9											
7	.0	.1	1.2	.8	*	*	2.2	*	*	.3	.1	.0	.0	.4											
8-9	.0	.4	.5	.5	.1	*	1.0	.0	*	*	*	*	.0	.1											
10-11	.0	.0	.2	.2	*	.0	.4	.0	.0	*	*	.1	.0	.1											
12	.0	.0	*	.1	.0	.0	.2	.0	.0	*	*	*	.0	*											
13-16	.0	.0	*	.2	*	.0	.2	.0	.0	*	*	*	.0	*											
17-19	.0	*	.0	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0											
20-22	.0	.0	.0	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0											
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	*											
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
TOT PCT	.6	6.5	8.4	2.8	.2	*	18.5	.5	3.7	2.4	.3	*	.0	6.9											

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.6	*	.0	.0	.0	1.0	.3	.6	.1	.0	.0	.0	1.0	
1-2	.2	2.1	.4	.0	.0	.0	2.7	.3	3.4	.7	.0	.0	.0	4.4	
3-4	*	.9	.7	*	.0	.0	1.8	*	1.6	2.2	.2	.0	.0	4.1	
5-6	.0	.3	.6	.1	.0	.0	1.1	.0	.4	2.1	.6	*	.0	3.2	
7	*	.1	.4	.1	*	.0	.6	.0	.1	1.0	.5	.1	.0	1.8	
8-9	.0	*	.1	.1	*	.0	.2	.0	*	.4	.5	.1	.0	1.0	
10-11	.0	*	*	.1	*	.0	.1	.0	*	.1	.4	.1	*	.6	
12	.0	*	*	*	*	.0	.1	*	*	*	.1	.1	*	.3	
13-16	.0	.0	*	.1	*	.0	.1	.0	*	.1	.2	.1	*	.5	
17-19	.0	.0	.0	*	*	.0	*	.0	*	*	.1	*	.0	.1	
20-22	.0	.0	*	*	.0	.0	*	.0	.0	*	*	*	*	.1	
23-25	.0	.0	*	*	*	.0	*	.0	.0	*	*	*	*	.1	
26-32	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	4.1	2.3	.5	.1	*	7.7	.6	6.1	6.9	2.7	.6	*	17.0	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.4	.9	.1	.0	.0	.0	1.4	.2	.3	*	.0	.0	.0	.5		
1-2	.3	4.3	1.5	.0	.0	.0	6.0	.1	1.4	.2	.0	.0	.0	1.7		
3-4	*	2.3	4.5	.6	.0	.0	7.5	*	.7	.5	.1	.0	.0	1.2		
5-6	*	.5	4.4	1.3	.1	.0	6.3	.0	.1	.3	.1	.0	.0	.3		
7	*	.2	2.1	1.6	.2	*	4.2	*	*	.2	.1	.0	.0	.3		
8-9	.0	*	.6	1.3	.2	*	2.1	.0	*	*	*	*	.0	.1		
10-11	.0	*	.3	1.0	.3	*	1.6	.0	.0	*	.1	*	.0	.1		
12	.0	.0	.1	.4	.2	*	.6	.0	.0	.0	*	.0	.0	*		
13-16	.0	.0	*	.4	.3	.1	.9	.0	.0	*	*	*	.0	*		
17-19	.0	.0	.0	.1	.2	*	.3	.0	*	.0	*	*	.0	*		
20-22	.0	.0	*	.1	.1	*	.2	.0	.0	.0	.0	*	.0	*		
23-25	.0	.0	*	.1	*	*	.2	.0	.0	.0	.0	.0	.0	*		
26-32	.0	.0	.0	*	.1	*	.1	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.7	8.3	13.6	6.8	1.9	.2	31.5	.3	2.5	1.3	.4	.1	.0	4.5	96.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.8	4.4	.2	.0	.0	.0	11.5	
1-2	2.1	19.2	4.6	.0	.0	.0	25.9	
3-4	.2	9.3	13.0	1.4	.0	.0	23.8	
5-6	*	2.1	11.5	3.0	.2	.0	16.8	
7	*	.5	5.5	3.4	.4	*	9.9	
8-9	*	.2	1.5	2.5	.4	*	4.7	
10-11	.0	.1	.7	1.8	.5	*	3.1	
12	*	*	.1	.7	.3	*	1.2	
13-16	.0	*	.2	.9	.5	.1	1.7	
17-19	.0	*	*	.3	.2	*	.5	
20-22	.0	.0	.1	.1	.2	*	.4	
23-25	.0	.0	*	.1	.2	*	.3	
26-32	.0	.0	.0	.0	.1	*	.2	
33-40	.0	.0	.0	.0	.0	*	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.2	35.7	37.6	14.2	3.0	.3	100.0	13758

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	.7	3.5	5.6	5.2	3.2	1.6	.9	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3683	5
6-7	*	.5	2.9	5.4	5.6	3.6	3.1	1.5	1.5	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	4235	7
8-9	*	.3	1.2	3.3	4.6	3.5	3.4	1.7	2.5	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	3718	9
10-11	.0	.2	.5	1.0	1.8	1.9	1.9	1.3	1.7	.6	.2	.1	.1	*	.0	.0	.0	.0	.0	1976	10
12-13	.0	.0	.5	.6	.7	.8	1.0	.6	1.3	.3	.3	.1	.1	*	.0	.0	.0	.0	.0	1874	13
13-15	.0	.0	.0	.2	.4	.3	.4	.3	.6	.3	.2	.2	.1	*	.0	.0	.0	.0	.0	534	13
INDET	1.4	.7	1.5	1.9	1.5	1.2	1.1	.4	.7	.2	.1	*	*	.0	.0	.0	.0	.0	.0	1827	6
TOTAL																				17049	
PCT	2.1	5.2	12.2	17.6	17.9	13.0	11.9	6.1	8.7	2.6	1.4	.5	.5	.1	.0	.0	.0	.0	.0	100.0	8

PERIOD: (PRIMARY) 1872-1973
(OVER-ALL) 1854-1973

TABLE 20

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PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0
81/82	.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	47	.1
79/80	1.4	1.2	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.3
77/78	3.1	3.8	3.9	1.7	.3	.1	.0	.1	.0	.1	.2	1.0	711	1.2
75/76	7.2	8.3	8.3	5.6	2.0	.2	.2	.0	.0	.2	.5	2.9	1786	2.9
73/74	14.8	12.7	10.2	9.5	5.9	1.8	.4	.1	.3	1.1	3.1	8.6	3504	5.7
71/72	22.0	20.5	13.2	8.2	9.2	5.5	2.1	1.3	1.3	3.3	6.8	14.6	5529	9.0
69/70	22.7	21.4	17.8	11.5	11.8	9.7	6.5	4.0	5.1	5.3	10.5	23.0	7663	12.4
67/68	16.0	15.9	18.0	15.8	15.2	15.2	10.4	8.8	9.0	10.2	17.0	24.6	9103	14.8
65/66	7.9	7.7	11.7	18.3	18.9	18.1	14.2	13.2	11.6	18.1	24.0	13.9	9233	15.0
63/64	3.5	5.0	9.4	17.6	22.6	23.0	26.0	25.4	26.4	33.4	23.5	8.3	11544	18.7
61/62	.9	1.6	3.6	6.9	9.2	16.4	22.6	25.2	26.8	19.1	9.2	1.8	7284	11.8
59/60	.7	.7	1.7	3.2	3.3	7.1	12.2	15.1	14.8	7.1	3.1	.8	3511	5.7
57/58	.0	.2	.8	1.2	1.0	2.3	4.0	5.0	3.6	1.5	1.3	.3	1073	1.7
55/56	.0	.3	.1	.3	.3	.5	1.1	1.1	.8	.4	.7	.0	291	.5
53/54	.0	.0	.1	.1	.1	.1	.3	.4	.3	.1	.1	.0	81	.1
51/52	.0	.0	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	24	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	5341	4395	5065	5182	5497	5302	5022	4967	4803	5037	5632	5332	61575	100.0
MEAN	70.4	70.2	69.1	67.3	66.4	64.8	63.5	62.9	63.1	64.2	65.7	68.6	66.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1013	1013	1013	1014	1012	1013	1013	1014	1013	2612
FEB	1014	1014	1014	1014	1013	1013	1014	1014	1014	2276
MAR	1016	1015	1016	1016	1015	1015	1016	1016	1016	2537
APR	1016	1016	1016	1016	1016	1016	1016	1017	1016	2457
MAY	1017	1017	1017	1017	1017	1018	1018	1018	1017	2746
JUN	1019	1019	1020	1019	1019	1019	1020	1020	1019	2832
JUL	1021	1021	1021	1021	1020	1021	1021	1021	1021	2943
AUG	1020	1019	1020	1019	1019	1019	1020	1020	1019	2917
SEP	1020	1018	1020	1019	1019	1018	1019	1019	1019	2732
OCT	1017	1016	1017	1017	1016	1017	1017	1017	1017	2831
NOV	1016	1016	1017	1015	1016	1015	1016	1016	1016	2808
DEC	1014	1014	1015	1015	1014	1014	1015	1015	1014	2759
ANN	1017	1017	1017	1017	1016	1017	1017	1017	1017	32500
OBS	5044	1725	5900	3350	6274	1895	6279	2033		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	1002	1005	1010	1013	1016	1020	1023	1027
FEB	999	1003	1006	1011	1014	1017	1021	1024	1029
MAR	1000	1003	1007	1012	1016	1019	1024	1027	1034
APR	995	1001	1007	1012	1016	1020	1026	1030	1035
MAY	994	1001	1006	1014	1018	1022	1027	1030	1035
JUN	996	1003	1008	1015	1020	1024	1030	1033	1037
JUL	997	1004	1009	1017	1021	1025	1032	1035	1039
AUG	999	1005	1009	1015	1019	1023	1031	1035	1039
SEP	995	1003	1008	1015	1019	1024	1030	1033	1038
OCT	998	1003	1007	1013	1017	1021	1027	1031	1035
NOV	998	1001	1006	1012	1016	1020	1026	1030	1034
DEC	998	1002	1007	1011	1015	1018	1022	1025	1030

PERIOD: (PRIMARY) 1970-1973
(OVER-ALL) 1955-1973

JANUARY

AREA 0021 EAST LONDON
32.55 30.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.7	.0	2.2	.0	.0	.0	.0	5.5	.4	4.5	4.2	.0	5.2	.4	81.3
NE	1.5	2.1	2.0	.0	.0	.0	.0	5.6	1.6	3.1	3.6	.0	2.7	*	83.7
E	2.7	1.9	.8	.0	.0	.0	.0	5.3	1.6	1.6	3.2	.0	1.4	.0	87.2
SE	3.7	2.8	2.4	.0	.0	.0	.0	9.0	4.7	1.8	1.7	.0	.1	.1	83.1
S	4.2	3.2	3.2	.0	.0	.0	.0	10.1	4.3	3.5	1.0	.0	.4	.2	81.5
SW	4.4	2.6	2.7	.0	.0	.0	.0	9.7	2.6	2.1	1.8	*	.9	.2	83.1
W	3.2	.7	2.4	.0	.0	.0	.5	6.9	3.0	4.1	1.4	.4	.3	.0	84.6
NW	3.1	.0	1.5	.0	.0	.0	.0	4.6	3.5	4.6	4.6	.0	.0	.0	82.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	3.7	.0	.0	.0	.0	3.7	3.7	7.4	.0	.0	3.7	.0	81.5
TOT PCT	3.2	2.1	2.2	.0	.0	.0	*	7.4	2.6	2.9	2.5	*	1.5	.1	83.6
TOT OBS:	2666														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	3.8	2.2	2.7	.0	.0	.0	.0	8.5	2.7	5.4	2.5	.2	.6	.3	80.6
0600	3.0	2.0	3.3	.0	.0	.0	.0	8.1	2.8	.4	2.5	.0	2.1	.0	84.2
1201	1.8	.5	1.1	.0	.0	.0	.0	3.2	1.8	.3	2.4	.0	2.4	.0	89.8
1801	3.9	3.5	2.0	.0	.0	.0	.1	9.4	2.8	5.5	2.4	.0	1.2	.1	79.8
TOT PCT	3.2	2.1	2.3	.0	.0	.0	*	7.5	2.5	2.9	2.5	*	1.6	.1	83.4
TOT OBS:	2761														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	2.5	2.9	1.4	.1	.0		7.4	14.5		5.0	7.6	9.7	9.6	4.8	6.9	5.9	5.8
NE	.7	5.8	10.1	4.4	.7	*		21.7	15.8		24.7	21.5	20.9	19.2	20.9	20.3	22.4	25.2
E	.9	6.4	7.6	1.5	.2	*		18.0	12.7		14.2	16.6	14.1	17.0	15.3	18.6	18.8	16.9
SE	.7	4.9	3.5	.6	.1	.0		9.8	11.1		9.4	9.2	8.3	10.1	8.3	11.7	10.8	9.5
S	.8	5.5	5.9	2.0	.3	*		14.6	13.7		9.8	12.7	12.3	14.9	17.7	17.3	17.0	14.8
SW	.4	4.7	7.4	3.8	1.0	.2		17.4	17.3		21.4	16.0	19.4	16.2	22.9	17.3	16.3	14.8
W	.3	2.4	2.9	1.7	.5	.1		7.9	16.7		9.9	9.5	10.2	7.2	6.7	5.9	6.0	7.9
NW	.3	1.3	.7	.3	.1	*		2.7	12.2		3.3	3.6	2.9	3.2	1.7	1.2	1.9	2.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		2.2	3.1	2.1	2.6	1.8	.8	.8	2.2
TOT OBS	448	2350	2876	1102	209	30	7015		14.3		453	927	1183	1202	447	707	1220	875
TOT PCT	6.4	33.5	41.0	15.7	3.0	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	1.4	3.0	2.3	.6	*		7.4	14.5	6.7	9.7	6.1	5.9
NE	2.6	9.0	8.0	1.8	.2		21.7	15.8	22.6	20.0	20.5	23.6
E	3.2	8.7	4.2	.5	.1		16.6	12.7	15.8	15.6	17.3	18.0
SE	2.6	5.2	1.7	.2	*		9.8	11.1	9.3	9.2	10.4	10.3
S	2.9	6.9	3.9	.9	.1		14.6	13.7	11.8	13.6	17.4	16.1
SW	2.0	7.1	5.6	2.2	.5		17.4	17.3	17.8	17.8	19.5	15.7
W	1.3	3.3	2.0	1.1	.2		7.9	16.7	9.6	8.7	6.2	6.8
NW	.9	1.2	.4	.2	*		2.7	12.2	3.6	3.1	1.4	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.8	2.3	1.2	1.4
TOT OBS	1316	3111	1978	523	87	7015		14.3	1380	2385	1154	2096
TOT PCT	18.8	44.3	28.2	7.5	1.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1870-1973
(OVER-ALL) 1855-1973

JANUARY

AREA 0021 EAST LONDON
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	2.8	4.0	36.3	39.8	13.8	2.8	.4	13.7	100.0	1380
0600	2.3	5.6	31.5	40.5	16.6	2.9	.6	14.4	100.0	2385
1200	1.2	3.6	30.5	44.5	16.3	3.6	.3	15.1	100.0	1154
1800	1.4	3.8	35.5	40.5	15.6	2.9	.3	14.3	100.0	2096
TOT	138	310	2350	2876	1102	209	30	14.3		7015
PCT	2.0	4.4	33.5	41.0	15.7	3.0	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	1.6	1.9	.8	4.1	4.1
NE	8.3	4.1	6.4	5.4	4.3	4.3
E	4.5	2.0	3.8	3.9	4.6	4.6
SE	1.5	1.3	2.7	3.6	5.6	5.6
S	2.0	2.9	4.2	4.6	5.5	5.5
SW	4.7	3.9	5.6	7.0	5.1	5.1
W	2.3	1.4	2.0	1.9	4.6	4.6
NW	.8	.5	.9	.4	4.1	4.1
VAR	.0	.0	.0	.0	.0	.0
CALM	.5	.3	.5	.2	3.9	3.9
TOT OBS	452	305	476	471	1704	4.8
TOT PCT	26.5	17.9	27.9	27.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.1	.6	.6	.5	.3	*	.0	.1	3.9	
NE	.1	.0	.2	1.8	3.9	2.1	1.1	.1	.0	.2	14.6	
E	.0	.0	.2	1.4	2.9	1.3	.4	.0	*	*	7.9	
SE	.0	.1	.4	1.8	1.6	1.0	.7	.0	*	*	3.5	
S	*	.1	.4	2.5	2.4	1.2	.4	.1	.0	.2	6.2	
SW	.2	.1	.5	2.6	3.8	2.5	.2	.1	.1	.1	11.0	
W	.0	.0	.1	.8	.9	.6	.1	.1	.1	.1	4.8	
NW	.0	.0	.1	.3	.3	.2	.1	.0	.0	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	1.1	
TOT OBS	6	3	36	203	282	161	58	7	6	14	928	1704
TOT PCT	.4	.2	2.1	11.9	16.5	9.4	3.4	.4	.4	.8	54.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1
>5000	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5
>3500	3.4	4.6	4.8	4.8	4.8	4.8	4.8	4.8
>2000	10.3	13.5	14.1	14.2	14.2	14.2	14.2	14.2
>1000	22.4	29.1	31.0	31.1	31.1	31.1	31.1	31.1
>600	29.4	40.1	42.6	42.8	42.8	42.8	42.8	42.8
>300	30.2	41.9	44.7	44.9	44.9	44.9	44.9	44.9
>150	30.3	42.0	44.8	45.0	45.0	45.0	45.0	45.0
>0	30.4	42.2	45.1	45.3	45.4	45.4	45.4	45.4
TOTAL	538	746	797	801	802	802	802	802

TOTAL NUMBER OF OBS: 1767

PCT FREQ NH <5/8 54.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	10.1	14.7	13.0	9.7	7.4	6.7	7.8	9.2	21.2	.2	1902

PERIOD: (PRIMARY) 1870-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	*	*	.0	*	.0	.0	.0	.0	*	.1		
	TOT %	.0	*	*	.0	*	.0	.0	.0	.0	*	.1		
1/2<1	PCP	*	.0	.0	*	*	.1	.0	.0	.0	.0	.2		
	NO PCP	.2	.8	.4	.1	.1	.1	.1	*	.0	.0	1.8		
	TOT %	.2	.8	.4	.2	.1	.1	.1	*	.0	.0	2.0		
1<2	PCP	.0	.0	.0	*	*	.1	*	.0	.0	.0	.2		
	NO PCP	.1	.5	*	.0	.0	.2	.1	.0	.0	.0	.9		
	TOT %	.1	.5	*	*	*	.2	.1	.0	.0	.0	1.0		
2<5	PCP	.1	*	*	.2	.3	.4	.1	.0	.0	.0	1.1		
	NO PCP	.2	.3	.1	.1	.2	.6	.3	.0	.0	.0	1.8		
	TOT %	.2	.3	.2	.3	.5	.9	.4	.0	.0	.0	2.9		
5<10	PCP	.2	1.0	.6	.5	1.0	1.0	.3	.1	.0	*	4.8		
	NO PCP	1.9	7.1	4.7	3.0	4.9	5.4	1.6	.9	.0	.1	29.7		
	TOT %	2.1	8.1	5.3	3.5	5.9	6.4	1.9	1.0	.0	.2	34.5		
10+	PCP	*	.3	.1	.1	.1	.4	.1	.0	.0	.0	1.2		
	NO PCP	3.6	14.0	8.9	5.5	8.2	11.7	4.3	1.4	.0	.8	58.4		
	TOT %	3.7	14.3	9.0	5.6	8.3	12.1	4.4	1.4	.0	.8	59.5		
TOT OBS														2663
TOT PCT														
		6.3	24.1	15.0	9.6	14.9	19.8	6.9	2.4	.0	1.0	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1		
	4-10	.0	*	*	.0	*	.0	.0	.0	.0	.0	.1		
	11-21	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.1		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	*	*	.0	.1	*	.0	.0	.0	*	.2		
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.1		
	4-10	*	.1	.1	*	*	*	*	*	.0	.0	.5		
	11-21	.1	.4	.2	.1	.1	.1	.1	*	.0	.0	1.1		
	22+	.1	.1	.0	.0	.0	*	*	.0	.0	.0	.2		
	TOT %	.2	.6	.3	.1	.1	.2	.1	*	.0	*	1.7		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.1	*	*	.1	*	*	.0	.0	.0	.3		
	11-21	.1	.2	*	.0	.0	.1	*	.0	.0	.0	.4		
	22+	.0	.1	.0	.0	*	.1	*	.0	.0	.0	.3		
	TOT %	.1	.4	*	*	.1	.2	.1	.0	.0	.0	1.0		
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1		
	4-10	*	.2	.1	.1	.3	.4	.1	.0	.0	.0	1.3		
	11-21	.2	.1	.2	.2	.3	.6	.2	.0	.0	.0	1.8		
	22+	.0	.1	*	.0	.1	.4	.2	.0	.0	.0	.7		
	TOT %	.2	.4	.3	.3	.7	1.4	.5	.0	.0	.1	3.9		
5<10	0-3	*	.3	.2	.1	.2	.1	.0	.1	.0	.2	1.2		
	4-10	.5	2.3	2.1	1.3	1.6	1.6	.7	.5	.0	.0	10.6		
	11-21	.8	3.2	2.3	1.3	2.2	3.1	1.0	.2	.0	.0	14.0		
	22+	.4	2.0	.5	.4	1.4	2.1	.5	.1	.0	.0	7.5		
	TOT %	1.8	7.6	5.1	3.2	5.4	6.8	2.2	.9	.0	.2	33.2		
10+	0-3	.2	.4	.5	.3	.6	.2	.1	.1	.0	1.1	3.4		
	4-10	1.6	4.3	4.2	3.3	4.0	3.6	1.6	.8	.0	.0	23.4		
	11-21	1.4	6.9	3.7	1.5	3.5	6.0	2.2	.4	.0	.0	25.6		
	22+	.3	2.5	.3	.1	.7	2.5	.9	*	.0	.0	7.4		
	TOT %	3.5	14.0	8.8	5.2	8.8	12.2	4.7	1.4	.0	1.1	59.9		
TOT OBS														3282
TOT PCT														
		5.8	23.1	14.6	8.8	15.2	20.8	7.7	2.3	.0	1.5	100.0		

JANUARY

PERIOD: (PRIMARY) 1870-1973
(OVER-ALL) 1855-1973

AREA 0021 EAST LONDON
32.55 30.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.9	.2	2.3	10.8	14.0	10.1	3.0	.0	.9	1.1	43.3	56.7	436
06009	.2	.2	1.8	11.2	19.4	8.8	3.5	.4	.2	1.0	46.7	53.3	490
12015	.2	.0	1.0	8.1	13.6	6.7	1.9	.6	.2	.2	32.6	67.4	479
18021	.0	.2	2.9	14.6	17.6	10.8	4.3	.5	.0	.7	51.6	48.4	444
TOT	6	3	37	206	299	167	58	7	6	14	803	1046	1849
PCT	.3	.2	2.0	11.1	16.2	9.0	3.1	.4	.3	.8	43.4	56.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.4	1.6	.3	3.4	30.3	64.1	763
06009	.2	1.9	1.5	4.3	33.9	58.2	940
12015	.0	1.3	.7	4.3	27.0	66.7	693
18021	.2	2.2	1.5	3.7	38.4	53.9	981
TOT	7	61	36	132	1114	2027	3377
PCT	.2	1.8	1.1	3.9	33.0	60.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	1.0	3.8	17.5	28.5	54.1	418
06009	.2	2.4	17.3	32.7	50.0	462
12015	.2	1.3	11.7	22.8	65.5	461
18021	.0	3.3	11.8	32.6	45.5	426
TOT	6	47	300	514	953	1767
PCT	.3	2.7	17.0	29.1	53.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
F										
85/89	.0	.0	.0	.1	.2	.3	.0	.0	10	.6
80/84	.0	.0	.0	.2	.9	1.8	1.8	.4	91	5.0
75/79	.0	.0	.1	.7	3.4	10.3	13.5	8.2	655	36.1
70/74	.0	.0	.0	1.2	5.1	13.5	15.5	8.3	790	43.6
65/69	.0	.0	.0	.6	2.3	3.5	3.9	3.3	245	13.5
60/64	.0	.0	.0	.2	.3	.2	.4	.1	20	1.1
55/59	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	1	52	219	535	636	369	1812	100.0
PCT	.0	.0	.1	2.9	12.1	29.5	35.1	20.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	.2	.1	.0	.6	.1	.1	.1	.0	.0
.6	1.8	.7	.2	.4	.8	.2	.1	.0	.3
3.1	13.2	5.3	3.2	3.4	5.2	1.5	.8	.0	.3
1.5	7.6	6.0	4.0	7.4	11.8	3.3	1.0	.0	.4
.6	.9	1.2	2.0	2.1	4.0	2.1	.3	.0	.3
.0	.1	.1	.1	.3	.2	.3	.6	.0	.0
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5.8	23.7	13.5	10.1	13.6	22.1	7.5	2.3	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	82	79	77	72	65	63	54	72.0	1370
06009	87	83	81	74	68	64	59	74.1	2322
12015	89	85	82	75	68	65	61	75.0	1140
18021	86	80	78	73	66	63	56	72.8	2064
TOT	89	82	79	73	67	63	54	73.4	6896

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	.8	8.0	21.4	39.3	30.4	84	473		
06009	.0	3.0	10.5	31.0	37.8	17.7	80	497		
12015	.0	5.1	20.8	33.9	30.4	9.8	76	451		
18021	.0	2.3	8.9	29.8	33.4	25.5	82	470		
TOT	0	53	226	548	668	396	80	1891		

PERIOD: (PRIMARY) 1870-1973
(OVER-ALL) 1855-1973

JANUARY

AREA 0021 EAST LONDON
32.5S 30.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)														
AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WU FOG	
11/13	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	7	.0	.3	
9/10	.0	.0	.0	.0	.1	.2	.1	.2	.1	.1	17	.0	.7	
7/8	.0	.0	.0	.1	.2	.4	.4	.3	.1	.1	38	.1	1.5	
5	.0	.0	.1	.3	.3	.2	.2	.1	.0	.0	26	.1	1.0	
4	.0	.0	.1	.2	.2	1.0	.6	.7	.1	.0	70	.1	2.7	
3	.0	.0	.1	.2	.4	1.0	1.3	.4	.0	.0	84	.2	3.2	
2	.0	.0	.1	.3	.4	1.9	1.6	.2	.0	.0	111	.2	4.3	
1	.0	.0	.1	.3	.8	3.6	2.4	.7	.0	.0	197	.5	7.4	
0	.0	.0	.1	.3	2.0	5.9	3.2	.2	.0	.0	290	.5	11.0	
-1	.0	.0	.1	.5	2.3	7.4	3.3	.3	.0	.0	348	.5	13.3	
-2	.0	.0	.1	.6	3.8	6.2	2.1	.0	.0	.0	320	.2	12.6	
-3	.0	.0	.2	1.0	3.5	5.6	1.2	.2	.0	.0	294	.2	11.5	
-4	.0	.0	.0	.7	3.5	4.3	.4	.0	.0	.0	225	.1	8.9	
-5	.0	.0	.1	.8	3.3	2.2	.3	.1	.0	.0	169	.1	6.6	
-6	.0	.0	.2	.9	2.2	1.7	.2	.1	.0	.0	132	.0	5.2	
-7/-8	.0	.0	.1	.1	1.5	.4	.0	.0	.0	.0	62	.0	2.5	
-9/-10	.0	.0	.2	.7	1.7	.4	.1	.0	.0	.0	78	.1	3.0	
-11/-13	.0	.0	.1	.6	.6	.1	.0	.0	.0	.0	33	.0	1.3	
-14/-16	.0	.0	.1	.4	.1	.1	.0	.0	.0	.0	14	.0	.6	
TOTAL	1	1	27	202	673	1069	86	10	5	5	2517	2.5	97.5	
PCT	.1	.1	1.1	8.0	26.7	42.5	17.6	3.4	.4	.2	100.0	2.5	97.5	

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N														
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.0	.0	.0	.0	.1	.5	.1	.0	.0	.0	.0	.6
1-2	.1	.5	.0	.0	.0	.0	.2	.1	1.3	.0	.0	.0	.0	4.9
3-4	.0	.5	.1	.0	.0	.0	1.9	.0	2.1	.4	.0	.0	.0	7.2
5-6	.0	.0	1.1	.1	.0	.0	1.3	.0	.9	3.0	.8	.0	.0	4.7
7	.0	.1	.4	.5	.0	.0	1.0	.0	.2	1.5	1.1	.0	.0	2.8
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.0	.6	1.5	.3	.0	2.3
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.3	.2	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.0	.5
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.2	3.4	.9	.0	.0	6.7	.5	6.4	11.8	4.3	.9	.0	23.9

E														
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8	.3	.4	.0	.0	.0	.0	.7
1-2	.3	3.5	.0	.0	.0	.0	4.4	.1	3.4	.7	.0	.0	.0	4.2
3-4	.1	2.0	2.6	.1	.0	.0	4.8	.0	1.2	.9	.0	.0	.0	2.1
5-6	.0	.3	1.4	.4	.0	.0	2.1	.0	.4	1.1	.1	.0	.0	1.5
7	.0	.0	.3	.1	.0	.0	.3	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.1	.0	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.2	4.9	.9	.0	.0	12.8	.4	5.5	3.1	.3	.3	.0	9.6

PERIOD: (OVER-ALL) 1963-1973

JANUARY

AREA 0021 EAST LONDON
32.95 30.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.5	.0	.0	.0	.0	.0	.7	.1	.7	.0	.0	.0	.0	.0	.8
1-2	.4	2.3	.9	.0	.0	.0	.0	3.6	.2	2.4	1.4	.0	.0	.0	.0	4.0
3-4	.0	1.7	2.5	.0	.0	.0	.0	4.3	.0	1.7	4.5	.7	.0	.0	.0	6.9
5-6	.1	.5	1.3	.6	.0	.0	.0	2.5	*	.2	3.9	1.0	.1	.0	.0	5.2
7	.0	.1	.9	.4	.1	.0	.0	1.4	.0	*	1.3	1.2	*	.0	.0	2.5
8-9	.0	.1	.4	.1	.1	.0	.0	.6	.0	.0	.4	.9	.0	.0	.0	1.3
10-11	.0	.1	.1	.1	.0	.0	.0	.3	.0	.0	.1	.9	.0	.0	.0	1.0
12	.0	.0	.1	.1	.1	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.1	.2	.4	.0	.0	.0	.6	.0	.0	.0	.5	.3	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4
20-22	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.3	6.5	1.6	.2	.0	.0	14.3	.3	5.0	11.7	5.6	.4	.0	.0	29.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.3	
1-2	.1	1.9	.4	.0	.0	.0	.0	2.4	.1	.6	.2	.0	.0	.0	.0	.8	
3-4	.0	.4	1.6	.1	.0	.0	.0	2.1	.0	.4	.2	.0	.0	.0	.0	.5	
5-6	.0	.1	.3	.1	.0	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.0	.2	
7	.0	.0	.4	.4	.0	.0	.0	.8	.0	.0	*	.0	.0	.0	*	.0	
8-9	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	2.4	3.3	1.0	.1	.0	.0	6.9	.3	1.0	.6	.0	.0	.0	.0	1.9	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	2.5	.0	.0	.0	.0	6.6	
1-2	1.9	18.4	6.4	.0	.0	.0	26.7	
3-4	.2	9.7	17.6	1.4	.0	.0	28.9	
5-6	.1	2.3	12.4	3.0	.1	.0	17.9	
7	.0	.3	5.0	3.7	.1	.0	9.1	
8-9	.0	.2	1.5	2.9	.4	.0	4.9	
10-11	.0	.1	.5	1.5	.2	.0	2.3	
12	.0	.0	.2	.3	.5	.0	1.1	
13-16	.0	.2	.2	1.1	.3	.0	1.8	
17-19	.0	.0	.0	.3	.2	.0	.5	
20-22	.0	.0	.1	.1	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	33.7	44.0	14.3	1.9	.0	100.0	1221

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	.5	3.2	7.5	5.8	4.4	2.5	1.4	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	392	5
6-7	.0	.6	2.3	6.8	5.7	4.2	3.7	1.0	1.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	386	7
8-9	.0	.1	1.1	1.9	4.6	3.5	2.6	2.4	2.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	286	9
10-11	.0	.2	.4	.9	1.4	2.0	1.9	.6	1.5	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	141	9
12-13	.0	.0	.8	1.0	.4	.6	.7	.4	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	73	9
13	.0	.0	.0	.2	.5	.5	.6	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	44	11
INDPT	.9	.6	2.0	2.5	1.3	1.6	1.1	.5	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	171	6
TOTAL	20	71	210	285	274	224	180	82	98	27	15	6	1	0	0	0	0	0	0	1493	7
PCT	1.3	4.8	14.1	19.1	18.4	15.0	12.1	5.5	6.6	1.8	1.0	.4	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1869-1973
(OVER-ALL) 1855-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	5.0	2.9	1.3	.0	.0	.0	.0	9.3	2.3	6.7	11.1	.0	.0	.0	.0	72.3	
NE	2.2	1.1	1.4	.0	.0	.0	.0	4.7	1.1	2.4	3.5	.0	2.7	.2	.0	85.9	
E	2.6	1.9	1.6	.0	.0	.0	.0	6.0	2.2	1.7	2.5	.0	2.1	.0	.0	85.5	
SE	2.7	1.7	2.8	.0	.0	.0	.0	7.2	3.1	1.2	.9	.0	.0	.6	.0	87.4	
S	5.5	3.9	1.3	.0	.0	.0	.0	10.8	4.4	2.9	2.2	.0	.2	.5	.0	80.1	
SW	6.9	6.7	4.1	.0	.0	.0	.0	17.2	7.0	4.8	1.1	.5	1.7	.1	.0	68.9	
W	3.3	3.0	3.8	.0	.0	.0	.0	10.1	4.0	.0	3.0	.0	.0	.5	.0	82.4	
NW	3.0	2.5	2.0	.0	.0	.0	.0	7.6	6.6	8.1	6.6	.0	2.0	.0	.0	70.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	13.3	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	.0	86.7	
TOT PCT	4.0	3.2	2.2	.0	.0	.0	.0	9.3	3.5	3.0	3.0	.1	1.3	.2	.0	80.2	
TOT OBS:	2226																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
0000	5.1	5.1	2.5	.0	.0	.0	.0	12.5	3.6	4.4	1.7	.2	.6	.0	.0	78.2	
0600	3.6	3.4	2.3	.0	.0	.0	.0	9.4	3.4	.2	3.8	.2	1.4	.3	.0	81.4	
1200	2.7	2.1	1.5	.0	.0	.0	.0	6.1	3.3	.8	3.1	.0	1.7	.6	.0	84.9	
1800	4.0	2.2	2.5	.0	.0	.0	.0	9.2	3.4	6.6	3.1	.0	1.7	.2	.0	77.3	
TOT PCT	4.0	3.2	2.2	.0	.0	.0	.0	9.3	3.4	3.0	3.0	.1	1.4	.3	.0	80.3	
TOT OBS:	2338																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	2.1	2.9	1.3	.2	.0		6.8	15.2		6.9	6.9	8.0	7.1	4.5	7.1	5.2	8.0
NE	.7	5.6	10.5	5.0	.8	*		22.6	16.3		24.4	22.7	22.5	21.1	22.5	22.7	22.6	24.0
E	1.0	7.0	7.2	2.2	.2	*		17.7	12.9		12.9	18.4	14.9	18.8	12.7	21.2	19.4	18.8
SE	.5	4.7	3.9	1.4	.3	*		10.8	13.3		8.5	9.8	9.1	12.2	8.8	12.5	12.0	11.2
S	.8	5.3	5.8	2.4	.6	.1		15.0	14.5		14.2	13.1	13.9	14.3	23.2	14.5	16.4	13.8
SW	.6	4.9	6.0	3.3	1.0	.2		16.0	16.4		20.4	14.9	17.2	14.2	23.5	13.7	15.5	14.6
W	.3	2.6	2.5	1.1	.3	*		6.8	14.3		9.6	8.6	9.8	6.4	3.6	4.5	5.5	4.9
NW	.3	1.5	.7	.2	*	.0		2.7	9.6		2.2	3.1	2.9	3.2	.8	2.9	2.1	3.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		.8	2.5	1.5	2.5	.5	.8	1.2	1.7
TOT OBS	375	2039	2379	1014	208	17	6032		14.5		389	810	976	1034	382	606	1136	699
TOT PCT	6.2	33.8	39.4	16.8	3.4	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.0	2.9	2.3	.6	*		6.8	15.2	6.9	7.5	6.0	6.3	
NE	2.6	9.1	8.6	2.1	.2		22.6	16.3	23.3	21.8	22.6	23.1	
E	3.6	8.7	4.7	.7	.1		17.7	12.9	16.6	16.9	17.9	19.2	
SE	2.3	5.3	2.5	.6	.2		10.8	13.3	9.4	10.7	11.1	11.7	
S	2.8	6.7	4.1	1.1	.3		15.0	14.5	13.4	14.1	17.9	15.4	
SW	2.6	6.2	4.8	1.9	.4		16.0	16.4	16.7	15.7	17.5	15.2	
W	1.3	3.0	1.8	.5	.1		6.8	14.3	9.0	8.1	4.1	5.3	
NW	1.2	.9	.5	.0	.0		2.7	9.6	2.9	3.1	2.1	2.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.6						1.6	.0	1.9	2.0	.7	1.4	
TOT OBS	1155	2582	1763	458	74	6032		14.5	1199	2010	988	1835	
TOT PCT	19.1	42.8	29.2	7.6	1.2		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1869-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.9	4.5	35.9	36.9	16.7	3.9	.1	14.2	100.0	1199
0600	2.0	5.1	32.4	40.0	16.9	3.2	.3	14.4	100.0	2010
1200	.7	3.3	32.4	42.4	17.5	3.4	.2	15.1	100.0	988
1800	1.4	4.8	34.7	38.9	16.5	3.4	.4	14.4	100.0	1835
TOT	97	278	2039	2379	1014	208	17	14.5		6032
PCT	1.6	4.6	33.8	39.4	16.8	3.4	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 6	TOTAL	MEAN
				DBSCD	DBS	CLOUD COVER
N	1.6	1.1	2.2	1.1		4.7
NE	8.0	4.3	7.0	3.5		4.2
E	3.3	2.1	3.7	3.3		4.9
SE	1.3	1.6	2.3	4.2		5.8
S	2.9	3.0	6.0	6.2		5.5
SW	4.2	2.9	7.0	7.4		5.4
W	1.8	1.6	1.9	1.8		4.7
NW	.4	.3	.6	.4		4.7
VAR	.0	.0	.0	.0		.0
CALM	.2	.3	.2	.3		4.8
TOT DBS	353	254	460	419	1486	5.0
TOT PCT	23.8	17.1	31.0	28.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	DBS
N	.1	.1	.1	.6	1.2	.4	.1	.1	.1	.1	3.4	
NE	.1	.0	.2	2.1	4.0	1.0	.7	.1	.2	.1	14.5	
E	.0	.0	.3	1.2	2.4	1.1	.5	.1	.1	.0	6.8	
SE	.1	.0	.2	1.8	2.6	.9	.2	.1	.1	.1	3.4	
S	.2	.1	.6	3.1	3.9	1.8	.5	.1	.2	.1	7.7	
SW	.2	.1	.8	3.0	4.1	2.9	.5	.1	.2	.1	9.5	
W	.0	.0	.3	.8	.7	.7	.3	.1	.0	.0	4.2	
NW	.0	.0	.0	.5	.5	.1	.0	.0	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.2	.1	.1	.0	.0	.0	.5	
TOT DBS	9	3	38	188	289	132	44	8	12	6	757	1486
TOT PCT	.6	.2	2.6	12.7	19.4	8.9	3.0	.5	.8	.4	50.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.2	1.6	1.7	1.7	1.7	1.7	1.7	1.7
>3500	3.8	4.4	4.6	4.6	4.6	4.6	4.6	4.6
>2000	10.4	12.9	13.4	13.4	13.4	13.4	13.4	13.4
>1000	23.1	31.3	32.7	32.8	32.8	32.8	32.8	32.8
>600	30.4	42.7	45.0	45.1	45.2	45.2	45.2	45.2
>300	31.4	44.6	47.3	47.6	47.7	47.8	47.8	47.8
>150	31.5	44.8	47.6	47.9	47.9	48.0	48.0	48.0
>0	31.8	45.3	48.1	48.5	48.5	48.6	48.6	48.6
TOTAL	488	695	739	744	745	746	746	746

TOTAL NUMBER OF OBS: 1535

PCT FREQ NH <5/8: 51.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
	7.1	13.8	11.8	10.5	7.5	6.5	8.5	10.1	23.6	.5	1638

PERIOD: (PRIMARY) 1869-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	*	*	.1	.0	.0	.1	
1/2<1	PCP	*	.0	.0	*	.0	*	*	.0	.0	.0	.1	
	NO PCP	.6	.8	.3	*	*	.1	.1	.1	.0	.0	2.0	
	TOT %	.6	.8	.3	.1	*	.2	.1	.1	.0	.0	2.2	
1<2	PCP	.0	.0	.0	.0	.1	.3	*	.0	.0	.0	.4	
	NO PCP	.0	.4	*	.0	.0	.1	.0	.1	.0	.0	.6	
	TOT %	.0	.4	*	.0	.1	.4	*	.1	.0	.0	1.0	
2<5	PCP	*	.1	.1	.1	.3	.7	*	.0	.0	.0	1.4	
	NO PCP	.1	.1	.2	*	.3	.3	.2	*	.0	.0	1.1	
	TOT %	.1	.3	.2	.1	.6	1.0	.2	*	.0	.0	2.6	
5<10	PCP	.4	.7	.5	.3	1.2	1.4	.3	.1	.0	.0	5.1	
	NO PCP	2.2	7.0	4.7	3.0	4.7	4.4	1.6	.9	.0	.0	28.5	
	TOT %	2.6	7.7	5.2	3.4	5.9	5.8	2.0	1.0	.0	.0	33.6	
10+	PCP	.2	.2	.2	.2	.3	.7	.2	*	.0	.1	2.7	
	NO PCP	3.4	14.5	7.7	5.8	10.5	10.9	4.1	.9	.0	.6	58.3	
	TOT %	3.6	14.7	7.9	6.0	10.8	11.6	4.4	1.0	.0	.7	60.9	
TOT OBS													2222
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	*	.1	*	.0	.0	.1	
	11-21	.0	.0	.0	*	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	*	.1	.1	*	.0	.0	.2	
1/2<1	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.1	.1	.2	*	.1	.1	.1	.0	.0	.0	.6	
	11-21	.1	.2	*	.1	.0	.1	*	*	.0	.0	.5	
	22+	.3	.3	*	.0	.0	*	.0	*	.0	.0	.7	
	TOT %	.5	.6	.2	.1	.1	.2	.1	.1	.0	.0	1.8	
1<2	0-3	.0	*	.0	.0	.0	*	.0	*	.0	.0	.1	
	4-10	*	.1	.1	.0	.1	.1	.1	*	.0	.0	.5	
	11-21	.0	.1	.0	*	.0	*	.0	.0	.0	.0	.2	
	22+	.0	*	.0	.0	*	.2	.1	.0	.0	.0	.3	
	TOT %	*	.3	.1	*	.1	.4	.1	.1	.0	.0	1.1	
2<5	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	*	*	.2	.2	.2	.2	.1	*	.0	.0	.8	
	11-21	*	.2	.1	.1	.3	.4	.1	.0	.0	.0	1.3	
	22+	.1	.1	.1	.0	.1	.4	.1	.0	.0	.0	.9	
	TOT %	.2	.4	.4	.2	.6	1.0	.3	*	.0	*	3.1	
5<10	0-3	*	.2	.4	*	.4	.1	.0	.1	.0	*	1.3	
	4-10	.7	1.9	2.2	1.5	1.6	1.9	.7	.6	.0	.0	11.0	
	11-21	.9	3.1	2.0	1.3	2.1	2.0	.8	.2	.0	.0	12.5	
	22+	.6	1.8	.5	.3	1.0	2.0	.5	.1	.0	.0	6.7	
	TOT %	2.2	7.0	5.0	3.1	5.1	6.1	2.0	1.0	.0	*	31.5	
10+	0-3	.1	.4	.4	.3	.4	.2	.1	*	.0	.8	2.7	
	4-10	1.4	3.6	3.8	3.3	4.8	3.5	1.7	.8	.0	.0	22.9	
	11-21	1.4	7.9	3.5	2.0	3.6	5.6	2.3	.2	.0	.0	26.6	
	22+	.3	2.8	.9	.6	1.6	3.2	.8	*	.0	.0	10.1	
	TOT %	3.2	14.7	8.6	6.2	10.4	12.6	4.8	1.0	.0	.8	62.3	
TOT OBS													2812
TOT PCT													100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.9	.0	1.6	13.9	21.6	6.7	2.9	1.1	.8	.0	50.4	49.6	375
06009	.0	.2	2.7	11.1	17.8	10.6	3.0	.5	1.2	.2	47.5	52.5	404
12015	.0	.3	3.3	9.8	16.5	7.5	2.5	.3	.5	.8	41.4	58.6	399
18021	.5	.5	2.2	13.9	19.8	9.7	2.7	.5	.5	.5	50.7	49.3	404
TOT	4	4	39	192	299	137	44	9	12	6	751	831	1582
PCT	.6	.3	2.5	12.1	18.9	8.7	2.8	.6	.8	.4	47.5	52.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.9	.3	2.6	30.8	65.1	647
06009	.0	2.5	1.4	2.4	36.1	57.6	793
12015	.3	2.1	1.0	3.8	24.4	68.3	606
18021	.5	1.4	1.5	3.6	35.8	57.2	879
TOT	8	51	32	91	948	1795	2925
PCT	.3	1.7	1.1	3.1	32.4	61.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.9	3.6	18.7	33.1	48.2	359
06009	.0	3.3	16.8	32.2	51.0	394
12015	.0	3.6	14.8	27.3	57.9	392
18021	.5	3.6	20.3	32.8	46.9	390
TOT	9	54	270	481	784	1535
PCT	.6	3.5	17.6	31.3	51.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.1	.2	.0	.0	5	.3
80/84	.0	.1	.0	.2	.9	1.4	2.2	.5	82	5.4
75/79	.0	.0	.0	.4	2.5	10.1	16.3	7.0	551	36.3
70/74	.0	.0	.1	1.5	7.2	11.7	11.9	7.8	612	40.3
65/69	.0	.0	.0	1.1	3.6	3.6	4.2	3.1	236	15.5
60/64	.0	.0	.0	.1	.3	.3	.9	.4	30	2.0
55/59	.0	.0	.0	.0	.1	.1	.0	.0	2	.1
TOTAL	0	1	1	49	225	417	539	286	1518	100.0
PCT	.0	.1	.1	3.2	14.8	27.5	35.5	18.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0
80/84	1.0	2.6	.4	.2	.5	.3	.1	.1	.0	.0
75/79	3.5	12.9	4.3	1.8	5.6	5.7	1.5	.6	.0	.3
70/74	.8	6.2	5.7	5.6	7.1	10.3	3.6	.6	.0	.3
65/69	.3	1.0	1.4	1.6	3.2	5.4	2.0	.5	.0	.1
60/64	.0	.1	.1	.1	.3	.9	.5	.1	.0	.0
55/59	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
TOTAL	5.8	22.9	12.0	9.3	17.0	22.7	7.7	1.9	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	79	78	73	65	62	58	72.4	1188
06009	89	83	81	75	68	64	59	74.5	1967
12015	88	85	82	75	68	64	62	75.4	971
18021	85	80	78	73	67	64	57	73.2	1800
TOT	89	82	80	74	67	64	57	73.8	5926

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	10.9	25.5	38.7	23.4	82	385
06009	.0	4.3	18.2	24.1	35.9	20.5	80	395
12015	.0	6.4	19.5	30.4	32.8	10.9	77	375
18021	.0	1.4	13.9	28.4	36.2	20.1	80	423
TOT	0	53	234	427	567	297	80	1578

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.1	.0	.1	.1	.0	6	.0	.3
9/10	.0	.0	.0	.1	*	*	.1	*	9	.0	.4
7/8	.0	*	.0	.3	.5	.3	.2	*	29	.0	1.4
6	.0	.0	.1	*	.1	.2	.2	.0	15	*	.7
5	.0	.0	.1	.4	.4	.6	.5	*	41	.1	1.8
4	.0	.1	.2	.3	.7	1.4	.5	.1	70	.2	3.0
3	.0	.0	.1	.5	.8	1.2	.7	.1	74	.2	3.2
2	.0	.0	.1	.4	2.2	2.9	.4	.0	128	.6	5.4
1	.0	*	.2	1.0	3.1	3.6	.5	.0	179	.4	8.0
0	.0	*	.5	1.8	5.3	5.2	.1	*	280	.5	12.6
-1	.0	*	.3	2.2	5.6	2.9	*	.0	238	.3	10.9
-2	.0	.2	.6	2.9	5.8	2.4	.2	.0	257	.2	11.8
-3	.0	*	.8	3.2	3.8	1.1	*	.0	194	.1	9.0
-4	.0	*	.8	2.9	3.4	.9	.0	.0	171	.1	7.9
-5	.0	.1	1.3	2.9	2.0	.4	.0	.0	143	.1	6.6
-6	.0	.1	.9	2.3	1.0	.1	.0	.0	94	.0	4.4
-7/-8	.0	.1	1.4	3.3	.9	.1	.0	.0	122	*	5.7
-9/-10	*	.3	.7	1.2	*	*	.0	.0	50	*	2.3
-11/-13	.0	.3	.7	.4	.0	.0	.0	.0	29	.0	1.4
-14/-16	*	.1	.2	*	.0	.0	.0	.0	9	.0	.4
TOTAL	2	34	192	560	765	501	76	8	2138	63	2075
PCT	.1	1.6	9.0	26.2	35.8	23.4	3.6	.4	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.3	.0	.0	.0	.0	.4	.2	.4	.1	.0	.0	.0	.7
1-2	.1	1.0	.5	.0	.0	.0	1.6	.1	2.6	1.8	.0	.0	.0	4.5
3-4	.0	.5	1.3	.0	.0	.0	1.8	.0	1.0	4.8	.4	.0	.0	6.2
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.4	3.7	1.8	.1	.0	6.0
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	2.3	1.7	.0	.0	4.0
8-9	.0	.1	.2	.5	.0	.0	.7	.0	.0	.7	1.0	.1	.0	1.7
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.0	2.4	.9	.0	.0	5.5	.3	4.4	13.3	5.8	.4	.0	24.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.5	.0	.0	.0	.0	.6	.2	.1	.0	.0	.0	.0	.3
1-2	.2	2.7	.2	.0	.0	.0	3.1	*	2.2	.5	.0	.0	.0	2.7
3-4	.0	2.0	3.1	.1	.0	.0	5.2	.0	1.9	1.1	.1	.0	.0	3.1
5-6	.0	.1	1.2	.3	.0	.0	1.6	.0	.3	.8	.1	.0	.0	1.2
7	.0	.1	.7	.2	.0	.0	1.0	.0	.0	.8	.2	.0	.0	1.1
8-9	.0	.0	.1	.6	.0	.0	.7	.0	.0	.1	.3	*	.0	.5
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.4	5.4	1.5	.0	.0	12.5	.2	4.5	3.3	.8	*	.0	8.8

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0		.4	.1	.4	.0	.0	.0	.0		.5
1-2	.0	4.1	.6	.0	.0	.0		4.7	.0	2.4	.8	.0	.0	.0		3.1
3-4	.0	1.3	2.7	.3	.0	.0		4.3	.0	1.1	3.3	.9	.0	.0		5.3
5-6	.2	.4	2.0	.7	.0	.0		3.2	.1	.8	2.4	.7	.0	.0		4.1
7	.0	.5	1.0	1.0	.0	.0		2.6	.0	.0	1.3	1.4	.2	.0		2.9
8-9	.0	.1	.3	.6	.3	.0		1.2	.0	*	.2	1.4	.2	.1		2.0
10-11	.0	.0	.2	.3	.1	.0		.6	.0	.1	.6	.9	.0	.0		1.6
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.2	.4	.0	.0		.7
13-16	.0	.0	.0	.3	.0	.0		.3	.0	.0	.1	.1	.5	*		.7
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
20-22	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.1	.0		.1
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	6.7	6.7	3.3	.5	.0		17.4	.2	4.8	9.0	5.8	1.1	.1		21.0

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.1	.0	.0	.0	.0		.2	.1	.1	.0	.0	.0	.0		.2
1-2	.1	.9	.5	.0	.0	.0		1.5	.1	.6	.0	.0	.0	.0		.8
3-4	.0	.8	1.8	.1	.0	.0		2.6	.0	.2	*	.0	.0	.0		.3
5-6	.0	.1	1.0	.5	.0	.0		1.6	.0	.0	.2	*	.0	.0		.3
7	.0	.0	.9	.4	.0	.0		1.3	.0	.0	*	.0	.0	.0		*
8-9	.0	.0	.0	.2	.0	.0		.2	.0	.0	.1	.0	.0	.0		.1
10-11	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.1		.1	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	1.8	4.3	1.3	.1	.1		7.7	.2	1.0	.4	*	.0	.0		98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	2.3	.1	.0	.0	.0	5.5	
1-2	1.1	16.7	4.7	.0	.0	.0	22.5	
3-4	.1	8.6	17.7	1.8	.0	.0	28.2	
5-6	.2	2.0	11.3	4.2	.1	.0	17.7	
7	.0	.6	7.0	5.1	.2	.0	12.9	
8-9	.0	.2	1.6	4.4	.6	.1	6.8	
10-11	.0	.1	1.0	2.5	.1	.0	3.7	
12	.0	.0	.2	.5	.3	.0	1.0	
13-16	.0	.0	.0	.1	.7	.5	1.4	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	30.5	43.7	19.0	2.1	.2	100.0	1009

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.5	4.3	6.1	5.4	4.8	1.9	1.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	5
6-7	.0	.2	2.7	5.5	5.8	3.0	3.4	1.7	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	300	7
8-9	.0	.3	.6	3.5	3.7	3.8	4.3	1.3	4.2	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	295	9
10-11	.0	.1	.2	.6	1.0	1.3	1.7	1.4	1.3	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	111	10
12-13	.0	.0	.7	.8	.5	.7	.8	.2	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	9
>13	.0	.1	.0	.2	.3	.3	.4	.2	1.0	.3	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	39	13
INDET	.8	.6	.9	1.6	2.4	1.2	1.9	1.3	.7	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	150	7
TOTAL	16	71	143	223	236	157	171	81	116	42	10	4	1	1	0	0	0	0	0	0	1272	8
PCT	1.3	5.6	11.2	17.5	18.6	12.3	13.4	6.4	9.1	3.3	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1968-1973
(OVER-ALL) 1855-1973

MARCH

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.0	.5	.9	.0	.0	.0	.0	5.4	.4	10.2	5.4	.0	1.5	.9	78.4
NE	3.0	1.1	.7	.0	.0	.0	.0	4.7	2.3	4.4	1.4	.0	1.8	.1	86.8
E	5.4	1.4	2.2	.0	.0	.0	.0	9.0	3.1	1.2	.8	.0	1.8	.0	84.6
SE	6.3	3.9	1.6	.0	.0	.0	.0	11.8	2.7	1.8	.2	.0	.0	.0	84.3
S	6.5	6.0	2.1	.0	.0	.0	.0	14.7	3.7	2.4	1.9	.0	.2	.0	78.0
SW	6.1	5.1	2.8	.0	.0	.0	.0	13.9	3.6	4.1	2.6	.1	.9	.0	83.8
W	5.2	2.0	1.6	.0	.0	.0	.0	8.8	1.6	3.8	2.2	.4	.0	.4	74.2
NW	4.7	2.9	1.4	.0	.0	.0	.0	9.0	4.3	5.7	6.5	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.4	.0	.0	.0	.0	.0	.0	7.4	3.7	.0	3.7	.0	.0	.0	85.2
TOT PCT	4.9	2.7	1.6	.0	.0	.0	.0	9.3	2.7	3.8	2.0	*	1.4	.1	81.8
TOT OBS:	2572														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.5	3.2	1.6	.0	.0	.0	.0	9.3	3.4	6.3	1.4	.2	.6	.3	79.6
0600	4.0	2.7	1.3	.0	.0	.0	.0	7.9	2.9	.6	2.7	.1	1.3	.0	85.0
1200	3.9	1.8	2.4	.0	.0	.0	.0	8.1	2.1	.5	2.3	.0	2.7	.0	84.5
1800	7.3	4.2	1.4	.0	.0	.0	.0	12.9	2.4	7.1	2.1	.0	1.0	.1	76.9
TOT PCT	5.0	3.0	1.7	.0	.0	.0	.0	9.6	2.7	3.7	2.1	.1	1.4	.1	81.4
TOT OBS:	2655														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-23	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.4	3.3	1.6	.2	.0		8.0	15.1	9.6	8.4	9.0	8.7	5.8	7.4	6.5	8.2	
NE	.6	6.1	11.7	4.9	.4	.1		23.8	15.9	27.6	22.8	23.1	21.8	1.9	22.5	24.6	23.5	
E	1.1	6.5	6.7	1.9	.2	*		16.4	12.8	13.0	15.0	15.3	15.7	16.2	18.8	18.5	17.1	
SE	.6	4.6	3.9	1.0	.1	.2		10.4	12.8	11.1	8.3	10.3	11.0	11.0	11.2	11.9	8.6	
S	.6	4.4	5.2	2.1	.5	.3		13.0	15.5	8.0	13.6	12.4	14.5	11.1	13.3	13.8	13.0	
SW	.6	4.2	5.9	3.5	.9	.2		15.4	17.2	17.9	13.9	14.9	14.5	19.7	15.4	15.7	14.9	
W	.6	2.7	2.8	1.3	.4	.1		7.9	15.0	8.2	9.9	9.9	7.7	3.9	7.1	5.6	9.4	
NW	.4	1.7	1.0	.1	.1	*		3.2	10.3	2.4	4.6	3.5	3.7	1.5	2.8	2.1	3.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9							1.9	.0	2.0	3.4	1.7	2.2	.9	1.4	1.4	1.8	
TOT OBS	483	2251	2817	1144	198	61	6954		14.6	459	947	1071	1206	441	721	1284	825	
TOT PCT	6.9	32.4	40.5	16.5	2.8	.9		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.5	2.8	2.9	.7	*		8.0	15.1	8.8	8.8	6.8	7.1	
NE	2.6	9.9	9.3	1.9	.1		23.8	15.9	24.4	22.4	25.3	24.1	
E	3.3	8.3	4.0	.6	.1		16.4	12.8	14.4	15.5	17.8	18.0	
SE	2.6	4.8	2.5	.3	.2		10.4	12.8	9.2	10.7	11.1	10.6	
S	2.3	5.5	3.7	1.0	.4		13.0	15.5	11.8	13.5	12.5	13.5	
SW	2.2	5.7	5.1	1.9	.5		15.4	17.2	15.2	14.7	17.1	15.4	
W	1.9	3.0	2.0	.7	.3		7.9	15.0	9.4	8.7	5.9	7.1	
NW	1.1	1.5	.4	.1	*		3.2	10.3	3.9	3.6	2.3	2.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.9						1.9	.0	2.9	2.0	1.2	1.6	
TOT OBS	1363	2893	2076	500	122	6954		14.6	1406	2277	1162	2109	
TOT PCT	19.6	41.6	29.9	7.2	1.8		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.9	4.6	34.4	38.5	15.8	3.3	.6	14.2	100.0	1406
06009	2.0	5.9	31.6	39.7	16.6	3.1	1.1	14.7	100.0	2277
12015	1.2	5.0	29.8	44.6	16.3	2.4	.8	14.8	100.0	1162
18021	1.6	4.4	33.3	40.5	16.8	2.5	.9	14.6	100.0	2109
TOT	133	350	2251	2817	1144	198	61	14.6		6954
PCT	1.9	5.0	32.4	40.5	16.5	2.8	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	2.2	1.5	2.1	1.1		4.2
NE	12.0	5.6	8.3	4.0		3.8
E	3.9	3.2	5.1	4.0		4.8
SE	1.8	2.2	3.0	3.4		5.3
S	1.3	1.3	4.0	3.7		5.8
SW	3.7	3.1	5.5	4.4		5.0
W	2.2	1.0	2.0	1.3		4.2
NW	.6	.1	.8	.3		4.7
VAR	.0	.0	.0	.0		.0
CALM	.5	.2	.4	.2		3.9
TOT OBS	486	313	540	383	1722	4.6
TOT PCT	28.2	18.2	31.4	22.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

UNCLASSIFIED BY 50101												
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.3	1.1	.8	.1	.1	.0	.1	4.3	
NE	.1	.2	1.8	3.7	1.7	.4	.1	.1	.1	.3	21.4	
E	.1	.0	.1	1.2	2.9	2.0	.4	.0	.2	.0	9.2	
SE	.0	.2	1.3	2.1	.8	.3	.1	.0	.1	.1	5.6	
S	.1	.1	.3	1.7	2.5	1.6	.2	.1	.0	.0	3.6	
SW	.2	.0	.7	2.6	2.9	1.1	.4	.1	.0	.1	8.7	
W	.0	.0	.3	.4	1.1	.5	.2	.0	.0	.0	3.9	
NW	.0	.0	.1	.3	.4	.1	.1	.0	.0	.1	.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.2	.1	.1	.0	.0	.0	.9	
TOT OBS	9	4	33	169	292	151	37	8	5	10	1004	1722
TOT PCT	.5	.2	1.9	9.8	17.0	8.8	2.1	.5	.3	.6	58.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	.7	.9	.9	.9	.9	.9	.9
>5000	1.0	1.2	1.3	1.3	1.3	1.3	1.3	1.3
>3500	2.5	3.2	3.4	3.4	3.4	3.4	3.4	3.4
>2000	9.2	11.8	12.1	12.1	12.1	12.1	12.1	12.1
>1000	21.4	28.0	28.8	28.9	28.9	28.9	28.9	28.9
>600	26.7	36.8	38.7	38.9	38.9	38.9	38.9	38.9
>300	27.1	38.2	40.5	40.8	40.9	40.9	40.9	40.9
>150	27.2	38.4	40.7	41.0	41.1	41.1	41.1	41.1
>0	27.4	38.7	41.3	41.6	41.7	41.7	41.7	41.8
TOTAL	481	680	724	730	731	731	732	733

TOTAL NUMBER OF OBS: 1755

PCT FREQ NH <5/8: 58.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
11.6	13.7	12.5	11.7	8.1	6.3	8.5	9.0	18.2	.4	1874

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	*	.2	.0
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	*	.2	.0
1/2<1	PCP	*	.0	.0	.0	*	.1	*	*	.0	.0	.2	.0
	NO PCP	.3	.2	.1	.0	.1	.2	.0	.2	.0	.0	1.0	.0
	TOT %	.3	.2	.1	.0	.1	.2	*	.2	.0	.0	1.1	.0
1<2	PCP	.0	.0	.1	.1	*	.1	.1	*	.0	.0	.4	.0
	NO PCP	*	.1	.1	*	.1	.2	*	*	.0	.0	.6	.0
	TOT %	*	.1	.2	.1	.1	.3	.1	.1	.0	.0	1.0	.0
2<5	PCP	.1	.2	.3	.2	.4	.4	.1	*	.0	.0	1.7	.0
	NO PCP	.0	.1	.2	.1	*	.4	.1	*	.0	.0	1.0	.0
	TOT %	.1	.3	.5	.3	.4	.8	.2	.1	.0	.0	2.7	.0
5<10	PCP	.2	.9	.7	.6	1.0	1.4	.3	.1	.0	.1	5.4	.0
	NO PCP	2.7	7.4	3.8	2.1	3.6	5.4	1.9	.8	.0	.1	27.7	.0
	TOT %	2.9	8.3	4.4	2.8	4.6	6.9	2.2	.9	.0	.2	33.1	.0
10+	PCP	.1	.2	.3	.2	.3	.4	.1	*	.0	.0	1.4	.0
	NO PCP	4.1	19.2	9.5	6.3	6.0	8.7	4.1	1.5	.0	.9	60.3	.0
	TOT %	4.2	19.4	9.9	6.5	6.3	9.1	4.2	1.5	.0	.9	61.9	.0
TOT OBS													2563
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.1	.0
	4-10	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	*	*	.0	.0	*	.1	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	*	*	*	.0	.1	*	.0	.1	.0	.0	.3	.0
	11-21	.2	.1	*	*	*	.1	.0	.1	.0	.0	.5	.0
	22+	*	.1	.0	.0	.0	*	*	.0	.0	.0	.2	.0
	TOT %	.3	.2	.1	*	.1	.2	*	.1	.0	.0	1.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0
	4-10	*	.1	*	*	*	.1	*	*	.0	.0	.5	.0
	11-21	.0	*	.1	*	*	*	*	*	.0	.0	.4	.0
	22+	.0	.0	.0	.0	*	.1	.0	.0	.0	.0	.2	.0
	TOT %	*	.1	.3	.1	.1	.3	.1	.1	.0	.0	1.1	.0
2<5	0-3	.0	*	.0	.0	*	.1	.0	.0	.0	.1	.3	.0
	4-10	.1	.1	.2	.2	.1	.2	.1	.1	.0	.0	1.1	.0
	11-21	*	.2	.3	.1	.2	.4	.2	*	.0	.0	1.5	.0
	22+	*	*	*	.1	.1	.3	.0	.0	.0	.0	.6	.0
	TOT %	.2	.4	.5	.4	.5	.9	.3	.1	.0	.1	3.5	.0
5<10	0-3	.1	.1	.3	.1	.2	.1	.1	.1	.0	.2	1.2	.0
	4-10	1.1	2.4	2.0	1.0	1.1	1.6	1.1	.5	.0	.0	10.7	.0
	11-21	1.0	3.9	1.9	1.2	1.8	3.2	.9	.2	.0	.0	14.1	.0
	22+	.4	1.2	.2	.3	.9	1.6	.4	*	.0	.0	5.0	.0
	TOT %	2.6	7.6	4.3	2.5	4.0	6.5	2.4	.9	.0	.2	31.1	.0
10+	0-3	.3	.5	.4	.4	.2	.4	.5	.2	.0	1.0	3.9	.0
	4-10	1.9	5.1	4.5	3.2	2.2	2.9	2.1	1.0	.0	.0	23.0	.0
	11-21	1.5	9.8	4.5	2.3	2.7	4.1	2.2	.4	.0	.0	27.4	.0
	22+	.6	3.4	.9	.3	.9	2.2	.6	.0	.0	.0	9.0	.0
	TOT %	4.3	18.9	10.3	6.2	6.1	9.6	5.4	1.6	.0	1.0	63.2	.0
TOT OBS													3111
TOT PCT													100.0

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PERIOD: (PRIMARY) 1968-1973
(OVER-ALL) 1955-1973AREA 0021 EAST LONDON
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	2.0	9.3	15.5	7.5	1.5	1.1	.4	.9	38.7	61.3	452
06009	.7	.5	2.3	11.3	18.0	7.2	3.2	.2	.2	.7	44.1	55.9	444
12015	.4	.4	2.1	9.7	13.2	7.4	1.6	.4	.2	.0	35.4	64.6	486
18021	1.2	.0	1.2	8.3	19.1	12.2	1.8	.0	.2	.7	44.7	55.3	434
TOT	12	4	34	175	297	155	37	8	5	10	737	1079	1816
PCT	.7	.2	1.9	9.6	16.4	8.5	2.0	.4	.3	.6	40.6	59.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.0	.4	3.0	27.7	68.6	729
06009	.2	1.9	1.4	3.1	34.6	58.7	837
12015	.0	1.4	1.7	3.9	26.6	66.3	695
18021	.2	.8	.9	3.8	35.4	59.0	932
TOT	6	33	35	110	1007	2002	3193
PCT	.2	1.0	1.1	3.4	31.5	62.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 3+	TOTAL OBS
00003	.9	3.0	14.5	26.7	58.9	435
06009	.7	3.5	15.7	29.6	54.7	433
12015	.4	3.0	14.4	22.7	62.9	472
18021	1.2	2.7	12.5	34.0	53.5	415
TOT	14	53	251	492	1012	1755
PCT	.8	3.0	14.3	28.0	57.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
84/89	.0	.0	.0	.1	.2	.0	.0	.0	4	.2
80/84	.0	.0	.0	.1	.3	1.1	2.0	.2	66	3.6
75/79	.0	.0	.1	.2	2.3	10.5	13.5	7.2	621	33.7
70/74	.0	.0	.3	1.5	7.2	10.6	13.8	8.9	777	42.2
65/69	.0	.0	.2	1.3	3.3	4.0	4.7	4.2	325	17.6
60/64	.0	.0	.0	.1	.3	.4	.9	.9	48	2.6
55/59	.0	.0	.0	.0	.0	.1	.0	.1	2	.1
TOTAL	0	0	9	57	250	490	643	394	1843	100.0
PCT	.0	.0	.5	3.1	13.6	26.6	34.9	21.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
84/89	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1
80/84	.4	2.1	.3	.0	.2	.2	.1	.1	.0	.2
75/79	4.2	14.8	5.0	1.6	2.0	3.9	1.4	.6	.0	.3
70/74	1.7	9.9	7.3	5.1	5.3	8.6	3.0	.9	.0	.4
65/69	.4	2.5	2.6	3.3	2.1	4.1	2.1	.3	.0	.3
60/64	.1	.4	.5	.1	.3	.7	.4	.2	.0	.0
55/59	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
TOTAL	6.7	29.8	15.7	10.2	9.8	17.5	7.0	2.0	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	79	77	72	65	62	57	72.0	1399
06009	88	82	80	74	66	63	57	73.6	2250
12015	87	84	81	75	67	64	59	74.6	1149
18021	82	80	78	73	64	62	60	72.8	2070
TOT	84	82	79	73	66	63	57	73.2	6868

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.7	12.6	23.2	34.6	26.9	81	483
06009	.0	3.4	13.6	24.6	34.6	23.8	80	471
12015	.0	5.2	18.2	28.8	35.5	12.4	78	445
18021	.0	3.4	9.6	28.5	34.9	23.5	81	498
TOT	0	69	254	498	662	414	80	1897

PERIOD: (PRIMARY) 1968-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
14/16	.0	.0	*	*	.1	.0	*	.0	5	.0	.2
11/13	.0	.0	.0	.1	.2	.1	.0	.0	10	.0	.4
9/10	.0	*	.1	.1	.1	*	.0	*	10	.0	.4
7/8	.0	.1	.1	.4	.4	.5	.1	*	44	*	1.8
6	.0	*	.1	.2	.4	.2	.1	.1	30	.0	1.2
5	*	.0	.4	.2	.2	.4	.3	.1	40	*	1.6
4	*	*	.4	.6	.4	.6	.5	.1	67	.1	2.6
3	.0	.1	.3	.4	1.1	1.3	.2	.0	81	.2	3.1
2	*	*	.3	.9	2.5	2.6	.2	.0	163	.4	6.2
1	.0	.1	.3	1.1	3.7	2.8	.4	.0	208	.3	8.1
0	.0	.2	.4	2.0	7.4	3.3	.2	.0	328	.4	13.0
-1	.0	.2	.7	2.1	6.1	2.9	*	.0	295	.2	11.8
-2	.0	.1	.4	2.7	5.3	1.4	.0	.0	245	.1	9.9
-3	.0	.1	.7	3.1	4.6	1.0	.0	.0	232	.2	9.3
-4	*	.2	1.1	3.5	3.4	.4	.0	.0	212	.1	8.5
-5	.1	.5	1.0	3.0	2.3	.2	.0	.0	173	.1	7.0
-6	.0	.1	.7	2.0	.6	*	.0	.0	85	*	3.4
-7/-8	*	.6	1.7	2.7	.6	.1	.0	.0	138	*	5.6
-9/-10	*	.3	1.0	1.1	.1	.0	.0	.0	61	.0	2.5
-11/-13	*	.1	.7	.2	.0	.0	.0	.0	27	.0	1.1
-14/-16	.0	.1	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	9	69	259	649	968	439	56	8	2457	53	2404
PCT	.4	2.8	10.5	26.4	39.4	17.9	2.3	.3	100.0	2.2	97.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.3	.0	.0	.0	.0	.7	.3	.3	.0	.0	.0	.0	.6
1-2	.0	1.2	.1	.0	.0	.0	1.3	.0	4.5	1.2	.0	.0	.0	6.0
3-4	.0	1.2	.6	.1	.0	.0	1.9	.0	2.6	5.8	.2	.0	.0	8.7
5-6	.0	.2	.8	.3	.0	.0	1.3	.0	.9	4.2	1.3	.0	.0	6.4
7	.0	.1	.5	.4	.0	.0	.9	.0	.1	2.5	1.9	.0	.0	4.5
8-9	.0	.0	.1	.5	.0	.0	.5	.0	.0	.8	1.1	.1	.0	2.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.5	.6	.1	.0	1.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	2.2	1.3	.0	.0	6.9	.6	8.4	15.1	5.4	.5	.0	30.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9	.5	.4	.0	.0	.0	.0	.9
1-2	.1	4.7	1.4	.0	.0	.0	6.2	.2	2.8	.6	.0	.0	.0	3.7
3-4	.0	1.8	3.2	.1	.0	.0	5.1	.0	1.3	1.8	*	.0	.0	3.1
5-6	.0	.3	2.6	.6	.0	.0	3.4	.0	.1	.9	.2	.0	.0	1.2
7	.0	.1	.8	.3	.0	.0	1.2	.0	.3	.7	.5	.0	.0	1.5
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.5	8.3	1.3	.0	.0	17.5	.7	4.9	4.4	.8	.0	.0	10.9

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.3	.3	.4	.0	.0	.0	.0	.8
1-2	.0	1.2	.5	.0	.0	.0	1.7	.1	2.1	.7	.0	.0	.0	2.9
3-4	.1	.8	1.8	.2	.0	.0	2.9	.0	.6	2.8	.3	.0	.0	3.7
5-6	.0	.2	1.5	.4	.1	.0	2.3	.0	.2	2.3	.8	.0	.0	3.4
7	.0	.0	.7	.6	.0	.0	1.4	.0	.0	.8	.9	.1	.0	1.8
8-9	.0	.0	.2	.2	.1	.0	.5	.0	.0	.4	.8	.2	.0	1.3
10-11	.0	.0	.2	.1	.1	.0	.5	.0	.0	.3	.5	.2	.0	.9
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.1	.0	.5
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.4	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	5.1	1.9	.3	.0	9.9	.4	3.3	7.4	4.3	.5	.0	15.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.0	.0	.0	.0	.5	.1	.2	.0	.0	.0	.0	.3	
1-2	.2	1.7	.2	.0	.0	.0	2.1	.0	.5	.0	.0	.0	.0	.5	
3-4	.0	.3	.9	.1	.0	.0	1.2	.0	.1	.1	.0	.0	.0	.2	
5-6	.0	.2	.6	.5	.0	.0	1.2	.0	.2	.1	.0	.0	.0	.3	
7	.0	.0	.5	.4	.0	.0	.9	.0	.0	.0	.0	.0	.0	.1	
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.6	2.3	.9	.0	.0	6.1	.1	1.0	.3	.0	.0	.0	1.4	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	3.1	.0	.0	.0	.0	6.9	
1-2	1.2	18.6	4.7	.0	.0	.0	24.5	
3-4	.1	8.7	16.8	1.1	.0	.0	26.6	
5-6	.0	2.3	12.8	4.0	.2	.0	19.4	
7	.0	.0	6.6	4.9	.1	.0	12.2	
8-9	.0	.0	2.2	2.8	.3	.0	5.3	
10-11	.0	.0	1.1	1.2	.3	.0	2.7	
12	.0	.0	.0	.8	.1	.0	.9	
13-16	.0	.0	.2	.7	.1	.0	1.0	
17-19	.0	.0	.1	.2	.1	.0	.4	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.1	33.4	44.5	15.8	1.3	.0	100.0	1235

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	3.5	7.0	5.4	5.4	1.8	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	380	5
6-7	.0	.3	3.4	6.0	6.4	4.6	4.0	1.8	1.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	426	7
8-9	.0	.2	.7	4.0	4.2	3.3	3.8	1.3	2.1	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	308	8
10-11	.0	.1	.1	.5	1.6	2.2	1.8	1.2	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	9
12-13	.0	.0	.5	.1	.5	.6	.7	.3	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	55	10
13-16	.0	.0	.0	.0	.1	.3	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	20	9
INDPT	1.1	.6	1.5	2.5	3.8	.9	.5	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	181	6
TOTAL	26	70	199	288	331	207	177	84	94	20	8	3	1	0	0	0	0	0	0	1508	7
PCT	1.7	4.6	13.2	19.1	21.9	13.7	11.7	5.6	6.2	1.3	.5	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1870-1973
(OVER-ALL) 1855-1973

APRIL

AREA 0021 EAST LONDON
32.55 30.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.1	1.0	.5	.0	.0	.0	.0	5.5	1.9	7.2	6.4	.0	1.2	.0	79.4
NE	2.1	1.3	1.1	.0	.0	.0	.0	4.6	.9	4.7	2.8	.2	1.8	.0	85.7
E	6.0	2.1	.0	.0	.0	.0	.0	8.7	1.0	4.2	.7	.0	.5	.0	86.9
SE	5.8	4.6	.6	.0	.0	.0	.0	11.1	3.9	4.8	.6	.0	.0	.0	80.4
S	6.6	5.7	1.3	.0	.0	.0	.3	14.0	2.3	5.4	2.2	.0	.3	.0	77.1
SW	5.2	5.1	1.7	.0	.0	.0	.0	12.0	3.3	5.4	1.0	.0	1.0	.2	78.6
W	3.8	3.7	2.3	.0	.0	.0	.0	9.8	3.0	4.5	2.1	.0	.3	.0	80.9
NW	5.2	.9	1.1	.0	.0	.0	.0	7.2	.9	10.4	4.1	.0	.0	.0	81.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	97.1
TOT PCT	4.5	3.3	1.3	.0	.0	.0	*	9.1	2.2	5.4	2.2	*	.9	*	81.4
TOT OBS:	2582														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.3	4.8	1.0	.0	.0	.0	.0	10.0	3.8	7.6	2.1	.2	.3	.0	76.8
0600	4.0	3.9	1.2	.0	.0	.0	.1	9.2	2.0	1.5	2.9	.3	1.1	.0	83.5
1200	3.4	1.9	1.5	.0	.0	.0	.0	6.9	1.7	1.0	2.2	.2	1.4	.0	87.1
1800	6.1	3.0	1.4	.0	.0	.0	.0	10.5	1.4	10.8	1.8	.0	.7	.2	77.6
TOT PCT	4.5	3.4	1.3	.0	.0	.0	*	9.3	2.2	5.3	2.3	.2	.9	*	81.2
TOT OBS:	2658														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.2	4.6	2.8	.3	*		11.4	16.0		7.5	13.2	11.6	13.6	6.6	12.4	9.1	11.5
NE	.8	5.5	9.4	4.7	.5	.1		20.9	15.9		21.6	21.8	19.1	18.7	24.0	22.4	21.9	21.9
E	.8	4.3	4.6	1.1	.2	.0		10.9	12.6		6.3	10.3	10.3	11.4	7.7	11.3	13.5	11.4
SE	.5	2.9	2.9	.7	.1	.0		7.1	12.4		6.3	6.3	6.1	7.0	7.8	8.6	7.9	7.0
S	.7	3.8	3.9	2.1	.6	.1		11.2	15.2		9.9	11.1	10.5	11.1	11.5	13.3	12.0	10.1
SW	.8	4.7	6.1	5.4	2.4	.7		20.2	20.3		27.4	18.0	20.2	17.7	29.2	17.4	22.7	18.7
W	.7	3.2	3.7	2.3	1.1	.4		11.4	18.4		13.5	12.6	14.5	12.2	9.2	8.8	8.4	11.1
NW	.4	2.1	1.5	.5	.1	*		4.8	12.1		4.4	5.2	5.5	5.8	2.4	4.3	2.9	6.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		3.1	1.6	2.1	2.5	1.5	1.5	1.6	2.1
TOT OBS	545	2220	2737	1464	397	100	7463		15.9		418	951	1136	1712	397	727	1262	860
TOT PCT	7.3	29.7	36.7	19.6	5.3	1.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	1.7	4.3	4.2	1.1	.1			11.4	16.0		11.5	12.8	10.4	10.1	
NE	2.7	8.6	7.4	2.0	.2			20.9	15.9		21.7	18.9	22.9	21.9	
E	2.4	5.3	2.7	.5	*			10.9	12.6		9.1	11.0	10.0	12.6	
SE	1.6	3.6	1.6	.3	*			7.1	12.4		6.3	6.6	8.3	7.6	
S	2.3	4.5	2.9	1.2	.3			11.2	15.2		10.7	10.9	12.7	11.3	
SW	2.5	6.2	6.0	4.0	1.6			20.2	20.3		20.8	18.7	21.6	21.1	
W	2.1	3.9	3.0	1.5	1.0			11.4	18.4		12.8	13.1	9.0	9.5	
NW	1.4	2.2	.9	.2	.1			4.8	12.1		5.0	5.7	3.6	4.2	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.0							2.0	.0		2.0	2.3	1.5	1.8	
TOT OBS	1396	2879	2138	814	296	7463			15.9		1369	2848	1124	2122	
TOT PCT	18.7	38.6	28.6	10.9	3.2			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1870-1973
(OVER-ALL) 1855-1973

APRIL

AREA 0021 EAST LONDON
32.55 30.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL Obs
				11-21	22-33	34-47				
00003	2.0	4.7	31.2	37.3	19.1	4.3	1.3	15.6	100.0	1369
06009	2.3	6.3	29.3	34.6	19.5	6.4	1.5	16.0	100.0	2848
12015	1.5	3.5	27.8	40.8	20.2	5.1	1.1	16.3	100.0	1124
18021	1.8	5.4	30.4	36.8	19.7	4.7	1.2	15.7	100.0	2122
TOT	14.9	39.6	222.0	146.4	39.7	10.0	15.9			7463
PCT	2.0	5.3	29.7	36.7	19.6	5.3	1.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	2.5	1.4	2.3	1.1		4.1
NE	7.8	4.3	5.7	2.9		3.9
E	2.9	1.5	1.9	1.8		4.2
SE	1.1	.9	3.1	2.4		5.8
S	2.4	2.4	4.0	2.6		5.0
SW	8.5	5.1	9.1	5.3		4.4
W	4.0	3.2	3.1	2.1		4.0
NW	1.4	.6	.7	.2		3.3
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.3	.1		2.5
TOT OBS	483	304	467	288	1542	4.3
TOT PCT	31.3	19.7	30.3	18.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.2	.8	.6	.4	.1	.0	.1	.1	5.1	
NE	.1	.1	.1	.7	2.7	1.1	.4	.3	.1	.3	14.9	
E	.0	.0	.0	.6	1.2	.5	.1	.1	.1	.1	5.6	
SE	.0	.0	.1	.8	2.0	.7	.3	.1	.0	.0	3.5	
S	.0	.1	.3	1.3	1.5	1.2	.3	.1	.1	.1	6.3	
SW	.1	.3	.5	3.7	3.6	1.6	.7	.1	.2	.1	17.2	
W	.1	.0	.1	.7	2.0	.6	.3	.0	.0	.0	8.4	
NW	.0	.0	.0	.2	.1	.2	.0	.0	.0	.0	2.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.2	.0	.1	.0	.0	.0	.0	1.2	
TOT OBS	4	6	22	140	211	98	39	10	10	10	998	1542
TOT PCT	.2	.4	1.4	9.1	13.7	6.4	2.1	.6	.6	.6	64.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5500	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>3500	3.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2
>2000	8.4	10.6	10.7	10.7	10.7	10.7	10.7	10.7
>1000	18.1	23.9	24.4	24.4	24.4	24.4	24.4	24.4
>600	23.8	32.5	33.3	33.5	33.5	33.5	33.5	33.5
>300	24.4	33.6	34.6	34.9	34.9	34.9	34.9	34.9
>150	24.4	33.6	34.9	35.2	35.2	35.2	35.3	35.3
>0	24.4	33.7	35.0	35.4	35.4	35.5	35.6	35.6
TOTAL	385	531	552	558	558	559	560	560

TOTAL NUMBER OF OBS: 1575

PCT FREQ NH <5/8: 64.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
									OBS	OBS
	13.6	14.5	14.4	11.8	9.7	6.9	8.1	7.4	13.5	1687

PERIOD: (PRIMARY) 1870-1973
(OVER-ALL) 1855-1973

APRIL

AREA 0021 EAST LONDON
32.5S 30.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	TOT %	.0	.0	.0	.0	*	.0	*	*	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	*	.1	.1	.0	.0	.0	.2	
	NO PCP	.6	.5	.1	*	.2	.2	*	.1	.0	.0	1.8	
	TOT %	.6	.5	.1	*	.3	.3	.1	.1	.0	.0	2.0	
1<2	PCP	.0	.0	.0	.0	*	.1	*	.0	.0	.0	.2	
	NO PCP	.1	.3	.0	*	.1	.2	.0	.0	.0	.0	.7	
	TOT %	.1	.3	.0	*	.1	.2	*	.0	.0	.0	.8	
2<5	PCP	.1	.2	*	.1	*	.3	.1	.0	.0	.0	.8	
	NO PCP	*	*	.1	*	.1	.3	.1	.0	.0	.0	.6	
	TOT %	.1	.2	.1	.1	.2	.6	.2	.0	.0	.0	1.4	
5<10	PCP	.3	.6	.5	.6	1.3	1.8	.4	.3	.0	.0	5.9	
	NO PCP	4.2	6.9	2.4	2.1	3.8	6.2	2.1	1.8	.0	.2	29.6	
	TOT %	4.5	7.4	2.9	2.7	5.1	8.0	2.5	2.1	.0	.2	35.4	
10+	PCP	.1	.2	.2	.1	.2	.7	.4	.1	.0	.0	2.1	
	NO PCP	4.4	12.4	4.7	4.5	6.0	15.1	7.8	2.1	.0	1.2	58.2	
	TOT %	4.6	12.7	4.8	4.6	6.2	15.9	8.2	2.1	.0	1.2	60.2	
TOT OBS													2581
TOT PCT													

APRIL

PERIOD: (PRIMARY) 1870-1973
(OVER-ALL) 1855-1973AREA 0021 EAST LONDON
32.55 30.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.0	.2	1.2	9.7	12.2	5.7	1.0	.7	.5	.0	32.3	67.7	403
06009	.0	.5	1.4	10.4	15.1	6.8	3.5	.2	.5	1.2	39.5	60.5	425
12015	.0	.2	1.2	6.8	12.3	7.2	1.9	1.0	.7	1.0	32.4	67.6	414
18021	.0	.5	1.6	8.5	14.0	5.6	1.9	.5	1.1	.5	34.1	65.9	378
TOT PCT	4 .2	6 .4	22 1.4	143 8.8	217 13.4	103 6.4	34 2.1	10 .6	11 .7	11 .7	561 34.6	1059 65.4	1620 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.3	.4	1.7	28.3	68.3	720
06009	.0	3.0	1.3	1.5	33.1	61.1	912
12015	.2	1.4	1.4	2.4	27.4	67.3	664
18021	.2	1.2	.5	1.9	38.5	57.7	945
TOT	3	56	29	60	1052	2041	3241
PCT	.1	1.7	.9	1.9	32.5	63.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.0	2.5	13.4	20.3	66.3	395
06009	.0	1.9	13.0	27.5	59.5	415
12015	.0	1.5	10.8	23.9	65.3	398
18021	.0	2.5	12.0	23.7	64.3	367
TOT	4	33	194	376	1005	1575
PCT	.3	2.1	12.3	23.9	63.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/99	.0	.0	.0	.1	.0	.1	.0	.0	2	.1
80/94	.0	.0	.1	.0	.1	.2	.1	.0	8	.5
75/79	.0	.0	.2	.4	1.7	4.8	4.9	1.4	232	13.4
70/74	.0	.0	.6	2.1	6.2	14.2	13.7	5.4	729	42.2
65/69	.0	.0	.2	2.8	6.4	7.0	9.3	5.4	538	31.1
60/64	.0	.0	.3	.9	1.8	2.4	3.1	2.5	191	11.1
55/59	.0	.0	.0	.0	.3	.6	.4	.3	28	1.6
TOTAL	0	25	109	287	505	542	260	1728	100.0	
PCT	.0	.0	1.4	6.3	16.6	29.2	31.4	15.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
.0	.2	.0	.0	.1	.0	.0	.0	.0	.1
1.4	6.3	.6	.6	1.0	2.1	.7	.4	.0	.3
4.5	9.6	4.7	3.2	4.0	10.5	3.6	1.4	.0	.8
1.0	3.6	2.3	2.3	4.3	11.3	4.7	1.1	.0	.5
.2	.8	.4	1.0	1.5	4.1	2.3	.8	.0	.0
.1	.0	.0	.2	.3	.5	.3	.2	.0	.0
7.3	20.6	8.0	7.2	11.1	28.5	11.7	4.0	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	78	74	70	63	60	54	69.9	1353
06009	86	81	78	72	64	60	55	71.7	2813
12015	87	81	79	73	64	61	56	72.2	1118
18021	81	78	74	71	64	61	54	70.8	2100
TOT	87	80	78	72	64	60	54	71.2	7384

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	14.1	27.4	35.3	17.0	7.9	4.53		
06009	.0	9.8	13.3	26.7	33.0	17.2	7.8	460		
12015	.0	11.6	20.3	35.0	23.7	9.4	74	414		
18021	.0	4.9	14.2	28.5	33.0	17.3	78	445		
TOT	0	134	290	519	557	272	77	1772		

APRIL

PERIOD: (PRIMARY) 1870-1973
(OVER-ALL) 1854-1973AREA 0021 EAST LONDON
32.55 30.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.1	.0	*	.0	.0	3	.0	.1
9/10	.0	.0	*	.1	.1	.1	*	*	*	11	.0	.4
7/8	.0	.0	*	.1	.3	.3	.1	*	.0	23	.1	.8
6	.0	.0	*	.2	*	.1	.0	.0	.0	11	.0	.4
5	.0	.0	.1	.2	.2	.4	.2	.1	*	32	*	1.3
4	.0	*	*	.5	.2	.9	.5	*	.0	54	.2	2.0
3	.0	.0	*	.3	.5	.8	.4	.1	.0	54	.1	2.1
2	.0	.1	.5	.6	.9	1.9	1.1	.0	.0	126	.3	4.8
1	.0	.1	.1	.8	1.5	3.0	.7	.0	.0	154	.3	6.0
0	.0	.0	.6	1.0	2.6	4.9	1.1	*	.0	250	.5	9.7
-1	.0	.1	.5	.8	4.6	5.0	1.1	.0	.0	298	.2	11.9
-2	.0	*	.2	1.7	3.9	4.9	.6	.0	.0	281	.3	11.1
-3	.0	.1	.2	1.5	4.3	3.0	*	.0	.0	227	.1	9.1
-4	.0	.1	.2	2.0	4.4	2.1	*	.0	.0	219	.0	8.9
-5	.0	*	.7	2.5	4.5	1.1	*	.0	.0	217	*	8.8
-6	.0	.0	.7	2.4	2.2	.3	.0	.0	.0	136	*	5.5
-7/-8	.0	.4	1.7	3.9	1.9	*	.0	.0	.0	196	.1	7.9
-9/-10	.0	.2	1.3	1.9	.5	.0	.0	.0	.0	96	.0	3.9
-11/-13	*	.3	.9	1.1	*	.0	.0	.0	.0	57	.0	2.3
-14/-15	.0	.2	.3	.1	.0	.0	.0	.0	.0	14	.0	.6
-17/-19	.0	.1	*	.0	.0	.0	.0	.0	.0	3	.0	.1
-20/-22	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	44	203	536	810	708	151	8	2	2463	56	2407
PCT	*	1.8	8.2	21.8	32.9	28.7	6.1	.3	.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.1	.0	.0	.0	1.4
1-2	.1	1.8	.4	.0	.0	.0	2.3	.3	2.3	1.4	.0	.0	.0	4.0
3-4	.0	.6	1.2	.0	.0	.0	1.8	.0	2.4	4.4	.2	.0	.0	7.0
5-6	.0	.3	1.1	.3	.0	.0	1.7	.0	.6	2.8	.8	.0	.0	4.2
7	.0	.0	.3	.3	.0	.0	.6	.0	.1	1.2	.8	.0	.0	2.1
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.2	.3	1.0	.0	.0	1.4
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.4	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.7	3.1	.9	.0	.0	6.8	.6	6.6	10.4	3.3	.0	.0	20.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.3	2.9	.4	.0	.0	.0	3.6	.3	1.8	.7	.0	.0	.0	2.9
3-4	.0	.7	1.2	.1	.0	.0	2.0	.0	1.2	1.3	.0	.0	.0	2.5
5-6	.0	.3	.6	.1	.0	.0	1.0	.0	.2	1.1	*	.0	.0	1.3
7	.0	.1	.1	.0	.0	.0	.2	.0	.1	.3	.0	.0	.0	.4
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	2.4	.6	.1	.0	7.7	.3	3.4	3.7	.1	.0	.0	7.6

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0021 EAST LONDON
32.55 30.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.2	.0	.0	.0	.0	.4	.1	.6	.2	.0	.0	.0	.0	1.0
1-2	.1	2.1	.7	.0	.0	.0	2.9	.2	2.4	.8	.0	.0	.0	.0	3.4
3-4	.0	.9	2.0	.2	.0	.0	3.2	.0	1.6	3.6	.5	.0	.0	.0	5.6
5-6	.1	.0	1.1	.3	.0	.0	1.5	.0	.5	2.9	2.5	.3	.0	.0	6.2
7	.0	.1	.3	.4	.1	.0	1.0	.0	*	1.6	1.8	.7	.0	.0	4.1
8-9	.0	.0	.4	.5	.0	.0	.9	.0	.0	.8	1.3	.3	.0	.0	2.4
10-11	.0	.0	.2	.2	.1	.0	.5	.0	.0	.4	1.9	.8	.0	.0	3.1
12	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.1	*	.0	.3
13-16	.0	.0	.1	.3	.1	.0	.6	.0	.0	.1	1.0	.6	.0	.0	1.6
17-19	.0	.1	.0	.0	.0	.1	.2	.0	.0	.1	.2	*	*	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	*	.0	.3
23-25	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.4	4.8	2.1	.5	.1	11.3	.3	5.1	10.4	9.6	3.2	.2	28.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.5	.0	.0	.0	.0	.7	.1	.3	.0	.0	.0	.0	.0	.4
1-2	.2	1.5	.4	.0	.0	.0	2.2	.1	.7	.2	.0	.0	.0	.0	1.0
3-4	.0	1.0	2.0	.2	.0	.0	3.1	.0	*	.3	.0	.0	.0	.0	.3
5-6	.0	.3	1.2	.4	.1	.0	2.0	.0	.1	.2	.0	.0	.0	.0	.2
7	.0	.2	.4	.5	.2	.0	1.3	.0	*	.2	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.7	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.5	.1	.0	.7	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.1	.1	.6	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.4	4.5	2.7	.9	.2	12.1	.2	1.2	1.0	.2	.0	.0	2.6	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.4	2.8	.4	.0	.0	.0	6.6	
1-2	2.3	15.5	4.9	.0	.0	.0	22.7	
3-4	.0	8.4	15.7	1.1	.0	.0	25.3	
5-6	.1	2.2	10.9	4.5	.4	.0	18.0	
7	.0	.7	4.4	3.7	1.0	.0	9.8	
8-9	.0	.2	2.3	3.9	.3	.0	6.6	
10-11	.0	.0	.9	3.3	1.0	.0	5.2	
12	.0	.0	.0	.4	.3	.1	.8	
13-16	.0	.0	.3	1.9	.9	.1	3.1	
17-19	.0	.1	.1	.2	.3	.1	.8	
20-22	.0	.0	.0	.2	.2	.1	.5	
23-25	.0	.0	.0	.0	.2	.3	.5	
26-32	.0	.0	.0	.0	.0	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	29.9	39.8	19.4	4.6	.5	100.0	1054

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.0	3.3	5.4	4.0	4.0	1.6	1.3	.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	282	5
6-7	.0	.5	2.7	6.0	6.1	4.0	4.0	1.1	1.9	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	357	8
8-9	.0	.2	1.0	3.4	6.0	3.9	3.8	1.4	2.7	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	285	9
10-11	.0	.2	.4	.8	1.1	1.5	1.1	.6	1.8	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	111	10
12-13	.0	.0	.4	.8	.6	.2	.8	.5	1.1	.6	.3	.5	.4	.0	.0	.0	.0	.0	.0	81	13
13	.0	.0	.0	.2	.1	.5	.0	.1	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	19	11
INDET	1.0	1.2	1.4	2.4	2.1	1.6	1.3	.5	1.3	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	179	7
TOTAL	26	70	149	232	236	176	163	60	120	44	17	13	7	1	0	0	0	0	0	1314	8
PCT	2.0	5.3	11.3	17.7	18.0	13.4	12.4	4.6	9.1	3.3	1.3	1.0	.5	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1872-1972
(OVER-ALL) 1855-1972

MAY

AREA 0021 EAST LONDON
32.55 29.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.0	1.2	1.1	.0	.0	.0	.0	3.2	.3	5.6	7.3	.0	1.5	.0	83.1
NE	1.6	.9	.9	.0	.0	.0	.0	3.4	.7	6.0	3.9	.0	2.4	.0	84.8
E	3.7	3.3	2.4	.0	.0	.0	.0	9.3	4.4	6.7	.8	.0	1.3	.0	79.6
SE	4.5	5.0	3.7	.0	.0	.0	.0	13.2	2.3	3.3	1.2	.0	1.0	.0	80.6
S	5.4	6.0	.7	.0	.0	.0	.0	12.0	3.5	7.5	.6	.0	.8	.0	77.8
SW	2.9	6.1	1.0	.0	.0	.0	.0	10.0	4.2	2.6	.5	.0	.6	.0	82.8
W	3.7	2.3	.4	.0	.0	.0	.3	6.7	3.3	3.5	.8	.3	.5	.3	85.4
NW	2.5	.0	.0	.0	.0	.0	.0	2.5	.2	5.7	4.6	.0	.4	.0	87.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.6	2.6	.0	.0	.0	.0	5.3	2.6	5.3	.0	.0	2.6	.0	84.2
TOT PCT	2.9	3.4	1.1	.0	.0	.0	*	7.4	2.6	4.7	2.2	*	1.1	*	83.0
TOT OBS:	2637														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.6	3.1	.8	.0	.0	.0	.2	7.6	2.1	7.3	1.0	.2	1.0	.0	82.3
06009	2.0	3.5	1.0	.0	.0	.0	.0	6.6	3.4	1.4	4.4	.0	.8	.1	83.9
12015	1.8	2.1	.7	.0	.0	.0	.0	4.6	2.1	.5	2.6	.0	1.7	.0	86.6
18021	3.8	4.5	1.6	.0	.0	.0	.0	9.9	2.3	9.7	1.6	.0	1.2	.0	77.3
TOT PCT	2.8	3.4	1.0	.0	.0	.0	*	7.3	2.5	4.8	2.5	*	1.1	*	82.8
TOT OBS:	2768														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							PCT DBS	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL			00	03	06	09	12	15	18	21
N	.9	4.2	5.4	2.9	.3	*	13.7	14.9		7.7	16.9	14.4	15.0	7.2	15.0	12.0	15.1
NE	.8	6.1	8.1	3.3	.4	*	18.8	14.8		23.8	18.1	17.6	15.2	19.8	19.1	21.8	20.5
E	.8	3.3	3.2	.9	*	*	8.2	12.0		6.2	8.7	8.0	7.5	10.7	8.9	8.7	7.7
SE	.5	2.1	1.3	.5	*	.1	4.5	12.0		3.8	3.6	4.2	5.3	4.2	4.8	5.0	4.3
S	.6	3.0	3.0	1.5	.5	.2	8.7	15.7		7.6	8.1	5.7	8.1	13.1	10.3	10.7	8.7
SW	1.0	5.6	6.8	4.6	2.2	.6	20.8	18.7		23.1	16.9	20.6	19.6	31.3	21.3	21.9	18.7
W	.9	4.5	4.5	3.1	1.4	.7	15.0	18.4		19.2	15.2	18.0	17.4	10.3	11.9	11.0	14.7
NW	.8	3.5	2.4	.9	.1	*	7.7	12.1		5.8	9.6	10.1	9.4	1.9	6.2	5.3	8.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0		2.8	3.0	1.5	2.5	1.5	2.4	3.6	2.4
TOT DBS	610	2283	2441	1240	352	111	7037	15.3		430	874	1103	1588	403	668	1208	763
TOT PCT	8.7	32.4	34.7	17.6	5.0	1.6	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					PCT DBS	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+			00	03	06	12	18
N	2.7	5.0	4.6	1.3	.1	13.7	14.9	13.9	14.7	12.1	13.2	
NE	3.2	8.0	6.1	1.4	.2	18.8	14.8	20.0	16.2	19.4	21.3	
E	2.2	3.9	1.8	.3	*	8.2	12.0	7.9	7.7	9.6	8.3	
SE	1.5	1.9	.9	.2	.1	4.5	12.0	3.7	4.8	4.6	4.7	
S	1.9	3.4	2.1	1.0	.3	8.7	15.7	7.9	7.1	11.3	9.9	
SW	3.1	7.2	5.7	3.5	1.2	20.8	18.7	19.0	20.0	25.1	20.6	
W	2.9	5.1	3.5	2.3	1.2	15.0	18.4	16.5	17.6	11.3	12.4	
NW	2.3	3.3	1.7	.3	.1	7.7	12.1	8.3	9.7	4.6	6.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5					2.5	.0	2.9	2.1	2.1	3.1	
TOT DBS	1565	2658	1863	725	226	7037	15.3	1304	2691	1071	1971	
TOT PCT	22.2	37.8	26.5	10.3	3.2	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1872-1972
(OVER-ALL) 1855-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.9	6.7	36.1	32.7	16.1	4.4	1.0	14.3	100.0	1304
0600	2.1	5.9	28.6	36.0	18.7	6.6	2.2	16.5	100.0	2691
1200	2.1	5.9	33.3	35.5	18.7	3.5	1.0	14.9	100.0	1071
1800	3.1	6.2	34.8	33.7	16.6	4.1	1.4	14.6	100.0	1971
TOT	178	432	2283	2441	1240	352	111	15.3		7037
PCT	2.5	6.1	32.4	34.7	17.6	5.0	1.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.1	1.7	1.3	.5		2.5
NE	11.0	4.6	3.8	1.2		2.7
E	3.3	.7	2.1	2.1		4.3
SE	1.5	.6	1.4	1.2		4.7
S	2.8	2.7	3.2	1.3		4.2
SW	8.5	5.7	9.1	3.2		4.1
W	6.5	3.3	4.1	1.3		3.4
NW	2.3	.9	.9	.7		2.6
VAR	.0	.0	.0	.0		.0
CALM	1.1	.1	.1	.6		3.2
TOT OBS	672	324	412	184	1592	3.5
TOT PCT	42.2	20.4	25.9	11.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.1	.5	.3	.1	.1	.0	*	7.5	
NE	.0	.0	.1	.6	1.5	1.0	*	.0	.1	.1	17.3	
E	.0	.0	.0	.5	1.1	1.2	.2	.1	.0	.1	5.0	
SE	.0	.0	.2	.7	.5	.4	.2	.0	.0	.0	2.7	
S	.0	.0	.1	.7	1.0	.8	.3	.0	.1	.0	6.9	
SW	.1	.1	.2	2.0	3.3	2.3	.6	.3	.0	.3	17.3	
W	.0	.0	.2	1.0	1.5	.8	.3	*	.1	.1	11.2	
NW	.0	.0	.1	.2	.1	.2	*	.1	.0	*	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.3	.1	.1	.1	.1	.1	.1	1.3	
TOT OBS	2	1	13	97	154	112	31	8	4	11	1159	1592
TOT PCT	.1	.1	.8	6.1	9.7	7.0	1.9	.5	.3	.7	72.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				OR			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	.8	.9	.9	.9	.9	.9	.9	.9
* OR >5000	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3500	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3
* OR >2000	8.5	9.9	10.2	10.2	10.2	10.2	10.2	10.2
* OR >1000	15.9	19.2	19.8	19.8	19.8	19.8	19.8	19.8
* OR >600	19.3	24.9	25.7	25.8	25.8	25.8	25.8	25.8
* OR >300	19.6	25.4	26.4	26.5	26.5	26.5	26.6	26.6
* OR >150	19.7	25.5	26.5	26.6	26.6	26.6	26.6	26.6
* OR >0	19.7	25.5	26.6	26.7	26.7	26.7	26.7	26.7
TOTAL	325	422	439	441	441	441	442	442

TOTAL NUMBER OF OBS: 1653

PCT FREQ NH <5/8: 73.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	21.2	18.8	15.3	10.9	7.4	6.0	6.3	5.5	8.7	.1	1746

PERIOD: (PRIMARY) 1972-1972
(OVER-ALL) 1955-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	*	.0	.1	.0	.0	.0	.1	
1/2<1	PCP	*	.1	.0	.0	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.6	.7	*	.1	*	.1	.1	.2	.0	.0	1.8	
	TOT %	.7	.7	*	.1	.1	.1	.1	.2	.0	.0	1.9	
1<2	PCP	.0	.0	.0	*	.0	.1	*	.0	.0	.0	.1	
	NO PCP	.0	.1	*	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.1	*	*	.0	.1	*	.0	.0	.0	.3	
2<5	PCP	*	*	.1	.1	*	.2	.1	.0	.0	.0	.6	
	NO PCP	*	.1	.0	*	.1	.1	.1	.0	.0	.0	.8	
	TOT %	.1	.2	.1	.1	.1	.4	.2	.0	.0	.0	1.2	
5<10	PCP	.3	.5	.4	.4	1.0	2.1	.6	.1	.0	.1	5.4	
	NO PCP	2.8	4.5	2.3	1.3	2.4	7.2	3.5	1.8	.0	.1	25.8	
	TOT %	3.0	5.0	2.7	1.7	3.4	9.3	4.1	1.9	.0	.2	31.2	
10+	PCP	.0	*	.2	.1	.1	.3	.1	.1	.0	.0	.9	
	NO PCP	6.0	13.7	4.9	2.6	6.1	16.5	10.0	3.2	.0	1.3	64.3	
	TOT %	6.0	13.7	5.2	2.7	6.2	16.8	10.1	3.2	.0	1.3	65.2	
TOT OBS													2635
TOT PCT													
9.8 19.7 8.0 4.6 9.8 26.7 14.6 5.4 .0 1.4 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*		
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1		
	TOT %	.0	.0	.0	.0	*	.0	.1	.0	.0	.0	.1		
1/2<1	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*		
	4-10	.1	.1	.0	.0	*	*	.1	.0	.0	.0	.4		
	11-21	.3	.5	*	*	*	.0	.1	.0	.0	.0	1.0		
	22+	.2	*	.0	.0	.0	.0	*	.0	.0	.0	.2		
	TOT %	.5	.6	*	*	*	.1	*	.2	.0	.0	1.6		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.1	*	.0	.0	.1	.0	.0	.0	.0	.2		
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*		
	22+	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1		
	TOT %	.0	.1	*	*	.0	.1	*	.0	.0	.0	.3		
2<5	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.1		
	4-10	.1	*	*	.0	.1	.1	.1	.0	.0	.0	.4		
	11-21	.0	.1	.0	.1	*	.3	.1	.0	.0	.0	.6		
	22+	.0	.0	.1	*	*	.2	.1	.0	.0	.0	.5		
	TOT %	.1	.2	.1	.1	.1	.6	.3	.0	.0	*	1.6		
5<10	0-3	.2	.3	.3	.1	.1	.3	.4	.2	.0	.2	2.0		
	4-10	.8	1.6	.7	.7	.8	2.2	1.4	.9	.0	.0	9.2		
	11-21	1.2	1.8	1.0	.4	1.1	2.5	1.2	.4	.0	.0	9.7		
	22+	.6	.8	.4	.2	1.0	3.8	1.1	.1	.0	.0	8.0		
	TOT %	2.8	4.5	2.4	1.5	3.0	8.7	4.1	1.7	.0	.2	29.0		
10+	0-3	.4	.4	.4	.2	.2	.7	.4	.5	.0	1.6	4.9		
	4-10	2.9	4.6	2.6	1.7	2.6	5.5	4.6	2.5	.0	.0	26.9		
	11-21	2.5	6.3	1.8	.6	2.2	6.3	3.9	1.2	.0	.0	24.8		
	22+	1.0	2.2	.3	*	.8	4.4	1.9	.2	.0	.0	10.9		
	TOT %	6.9	13.5	5.1	2.5	5.8	16.9	10.8	4.4	.0	1.6	67.5		
TOT OBS														3201
TOT PCT														
10.3 18.9 7.7 4.2 9.0 26.4 15.3 6.3 .0 1.9 100.0														

PERIOD: (PRIMARY) 1972-1972
(OVER-ALL) 1955-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.2	.0	.7	5.1	5.8	8.8	1.8	.2	.2	.9	23.7	76.3	434
06009	.0	.0	.6	6.6	10.2	6.6	1.9	.6	.0	.6	27.3	72.7	469
12015	.0	.2	.5	5.8	11.7	4.4	1.9	.2	.5	.9	26.1	73.9	429
18021	.2	.0	1.2	5.1	8.8	6.3	2.0	.7	.2	.0	24.6	75.4	410
TOT	2	1	13	99	159	114	33	8	4	11	444	1298	1742
PCT	.1	.1	.7	5.7	9.1	6.5	1.9	.5	.2	.6	25.5	74.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.5	.1	1.4	27.6	70.4	736
06009	.3	3.3	.1	1.6	31.3	63.4	939
12015	.0	2.0	.4	1.8	23.8	71.9	684
18021	.0	1.2	.4	1.3	33.1	63.9	973
TOT	3	61	9	50	982	2227	3332
PCT	.1	1.8	.3	1.5	29.5	66.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	1.0	7.0	17.5	75.5	416
06009	.0	.7	8.7	21.1	70.1	435
12015	.0	.7	8.0	19.8	72.2	410
18021	.3	1.5	7.4	18.4	74.2	392
TOT	2	16	129	318	1206	1653
PCT	.1	1.0	7.8	19.2	73.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.1	.1	.1	.2	.1	.0	.0	7	.4
75/79	.0	.0	.1	.5	.8	1.6	.7	.2	74	4.0
70/74	.0	.0	.6	2.1	6.5	11.8	10.2	3.9	651	35.0
65/69	.0	.1	.3	2.3	8.1	13.7	12.7	6.0	802	43.1
60/64	.0	.0	.1	1.7	3.0	4.0	3.5	3.4	290	15.6
55/59	.0	.0	.0	.1	.3	.5	.3	.7	35	1.9
50/54	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	2	20	126	349	589	509	265	1860	100.0
PCT	.0	.1	1.1	6.8	18.8	31.7	27.4	14.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.0	.0	.1	.1	.1	.0	.1
.6	1.4	.3	.0	.2	.6	.3	.5	.0	.0
4.6	10.4	2.8	.9	3.1	7.3	3.6	1.6	.0	.7
2.2	6.9	4.1	2.3	4.3	12.8	7.4	2.1	.0	1.0
.4	.8	.8	.9	1.7	6.2	3.7	.7	.0	.3
*	.1	.0	.2	.1	.7	.7	*	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
8.0	19.7	8.2	4.3	9.4	27.7	15.8	4.9	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	76	74	68	61	58	54	67.9	1296
06009	86	79	76	70	62	58	50	69.6	2610
12015	86	80	77	71	63	60	56	70.5	1050
18021	78	77	74	69	62	58	52	68.9	1898
TOT	86	78	76	70	62	58	50	69.2	6854

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.6	13.8	31.6	30.6	18.4	78	484
06009	.0	8.3	18.7	30.8	29.1	13.0	76	529
12015	.0	12.6	28.3	31.6	21.2	9.3	73	443
18021	.0	5.0	17.3	31.8	28.6	17.3	78	497
TOT	0	152	364	614	538	285	76	1953

PERIOD: (PRIMARY) 1872-1972
(OVER-ALL) 1859-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	3	.0	.1
9/10	.0	.0	.0	*	*	.1	*	*	*	.0	8	.0	.3
7/8	.0	.0	.0	*	.2	.2	.2	.1	*	.0	20	.0	.8
6	.0	.0	.0	.0	*	.4	.1	.1	.0	.0	15	.0	.6
5	.0	.0	.0	.1	.3	.3	.4	.2	.0	.0	31	.1	1.1
4	.0	.0	.0	*	.2	.3	.6	.2	.0	.0	35	*	1.3
3	.0	.0	.0	.1	.1	.9	.7	.1	.0	.0	49	.1	1.8
2	.0	.0	*	.2	.8	1.3	1.6	.3	.0	.0	104	.4	3.7
1	.0	.0	*	.3	1.8	3.2	2.3	.0	.0	.0	166	.3	6.2
0	.0	*	.0	.7	1.5	5.6	2.7	*	.0	.0	269	.5	10.0
-1	.0	.0	*	.2	2.3	5.8	2.2	.1	.0	.0	269	.7	9.9
-2	.0	.0	*	1.2	3.1	5.4	1.5	.0	.0	.0	288	.2	11.1
-3	.0	.0	*	.6	3.3	5.6	.9	.0	.0	.0	267	.2	10.3
-4	.0	.0	.1	1.3	3.9	3.9	.3	*	.0	.0	242	.2	9.3
-5	.0	.0	.1	1.3	4.4	2.7	.2	.0	.0	.0	223	*	8.7
-6	.0	.0	.2	1.3	2.9	1.1	*	.0	.0	.0	142	.1	5.5
-7/-8	.0	*	.7	2.8	3.9	.9	*	.0	.0	.0	214	*	8.3
-9/-10	.0	.0	.6	2.4	1.6	.2	.0	.0	.0	.0	125	*	4.8
-11/-13	.0	*	.7	.7	.5	*	.0	.0	.0	.0	53	*	2.0
-14/-15	.0	*	.6	*	.0	.0	.0	.0	.0	.0	28	.0	1.1
-17/-19	.0	*	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	1		86		765		352		2		2558	68	2490
PCT	*	.2	3.4	34.4	29.9	37.9	13.8	1.3	.1	*	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9	.0	.4	.1	.0	.0	.0	.6
1-2	.1	1.9	.8	.0	.0	.0	2.8	.3	3.5	.9	.0	.0	.0	4.7
3-4	.2	.7	1.0	.2	.0	.0	2.0	.0	1.0	3.1	.2	.0	.0	4.3
5-6	.0	.3	.6	.4	.0	.0	1.2	.0	.7	3.6	.9	.0	.0	5.2
7	.0	.0	.5	.7	.0	.0	1.2	.0	.2	1.4	.6	.3	.0	2.5
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.6	1.0	.1	.0	1.8
10-11	.0	.0	.1	.2	.1	.0	.3	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.1	.0	.5
13-16	.0	.0	.0	.2	.1	.0	.2	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.5	3.0	1.7	.1	.0	8.8	.4	5.9	10.0	3.6	.6	.0	20.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.1	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
1-2	.6	2.3	.1	.0	.0	.0	2.9	.1	1.9	.1	.0	.0	.0	2.0
3-4	.0	.7	1.7	.0	.0	.0	2.4	.0	.8	.2	.1	.0	.0	1.1
5-6	.0	.2	.9	.1	.0	.0	1.2	.1	.3	.4	.0	.0	.0	.8
7	.0	.0	.3	.2	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.1	.0	.2	.0	.0	.3
10-11	.0	.1	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.1	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.7	3.1	.7	.0	.0	8.2	.2	3.1	.8	.3	.0	.1	4.5

PERIOD: (OVER-ALL) 1963-1972

MAY

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32.55 29.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8	.3	.7	.0	.0	.0	.0	1.0
1-2	.1	2.3	.5	.0	.0	.0	3.0	.2	3.3	1.3	.0	.0	.0	4.9
3-4	.0	.9	1.0	.4	.0	.0	2.3	.1	2.6	3.7	.1	.0	.0	6.4
5-6	.0	.3	1.0	.1	.0	.0	1.4	.0	.9	2.5	1.4	.2	.0	5.0
7	.0	.1	.8	.2	.1	.0	1.2	.0	.2	1.8	1.5	.1	.0	3.6
8-9	.0	.2	.2	.3	.1	.0	.6	.0	.0	.7	.8	.2	.0	1.7
10-11	.0	.0	.0	.3	.1	.0	.4	.0	.2	.4	1.0	.5	.0	2.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.*	.3	.*	.0	.3
13-16	.0	.0	.0	.1	.2	.0	.2	.0	.1	.0	.1	.5	.2	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.*	.*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.4	3.4	1.4	.4	.1	10.0	.6	7.9	10.3	5.3	1.9	.2	26.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.0	.0	.0	.0	.0	1.3	.4	.4	.0	.0	.0	.0	.8	
1-2	.6	4.0	1.1	.0	.0	.0	5.6	.1	1.5	.3	.0	.0	.0	1.9	
3-4	.0	1.8	1.8	.1	.0	.0	3.7	.0	.4	.5	.*	.0	.0	.9	
5-6	.0	.2	.7	.5	.0	.0	1.4	.0	.2	.1	.*	.0	.0	.3	
7	.0	.0	.6	.4	.1	.0	1.1	.0	.0	.1	.*	.0	.0	.1	
8-9	.0	.0	.5	.2	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.1	.4	.0	.4	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.1	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.*	.*	.0	.*	
17-19	.0	.0	.0	.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	7.0	4.9	1.8	1.2	.1	15.6	.5	2.5	1.1	.1	.*	.0	4.3	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	4.2	.2	.0	.0	.0	9.4	
1-2	2.6	20.8	4.9	.0	.0	.0	28.3	
3-4	.3	8.8	12.4	1.0	.0	.0	22.6	
5-6	.1	3.0	9.5	3.2	.2	.0	15.9	
7	.0	.4	5.4	3.6	.5	.0	9.9	
8-9	.0	.3	2.1	2.7	.7	.0	5.7	
10-11	.0	.3	.5	2.1	1.0	.1	4.0	
12	.0	.0	.3	.7	.2	.0	1.2	
13-16	.0	.1	.0	.8	.9	.2	1.9	
17-19	.0	.0	.0	.2	.4	.0	.6	
20-22	.0	.0	.1	.1	.1	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.2	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.0	37.8	35.4	14.3	4.0	.4	100.0	1168

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	4.8	5.1	4.4	3.9	1.4	1.6	.4	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	368	5
6-7	.0	.6	2.9	4.9	4.8	4.3	3.8	.9	1.2	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	355	7
8-9	.0	.1	1.1	3.2	3.9	3.8	3.1	1.4	2.4	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	296	9
10-11	.0	.1	.3	1.5	1.8	1.8	1.8	1.4	1.8	.8	.1	.2	.1	.0	.0	.0	.0	.0	.0	172	10
12-13	.0	.0	.9	.5	.5	1.3	.9	.5	1.2	.5	.4	.3	.3	.1	.0	.0	.0	.0	.0	110	11
>13	.0	.0	.0	.1	.5	.1	.4	.2	.3	.1	.4	.0	.1	.1	.0	.0	.0	.0	.0	34	13
INDET	1.0	.4	1.2	1.6	2.5	1.0	.9	.1	.9	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	149	7
TOTAL	29	89	169	237	265	200	183	73	128	45	23	12	9	2	0	0	0	0	0	1464	8
PCT	2.0	6.1	11.5	16.2	18.1	13.7	12.5	5.0	8.7	3.1	1.6	.8	.6	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1871-1972
(OVER-ALL) 1855-1972

JUNE

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32.55 29.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.1	.5	.0	.0	.0	.0	.0	.6	1.1	3.8	5.2	.0	1.5	.0	87.9
NE	1.3	1.0	.1	.0	.0	.0	.0	2.4	2.0	1.4	2.7	.0	1.8	.0	90.0
E	1.1	.7	.9	.0	.0	.0	.0	2.6	.0	.7	1.8	.0	1.9	.0	93.0
SE	1.1	2.2	.3	.0	.0	.0	.0	3.5	6.7	3.0	.0	.0	.0	.0	86.8
S	2.1	6.4	.3	.0	.0	.0	.0	8.8	5.7	3.0	.7	.0	.2	.0	81.6
SW	2.7	6.5	1.3	.0	.0	.0	.5	11.0	4.9	3.6	.7	.0	.6	.0	79.9
W	3.0	3.2	.7	.0	.0	.0	.1	6.8	2.6	4.7	.7	.0	.0	.0	86.6
NW	.6	1.7	.0	.0	.0	.0	.0	2.0	.6	2.0	3.1	.0	.9	.0	91.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	97.7
TOT PCT	1.7	3.2	.5	.0	.0	.0	.1	5.5	2.9	3.0	2.0	.0	.9	.0	86.1
TOT DBS:	2927														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	2.0	3.1	.3	.0	.0	.0	.3	5.7	4.6	6.7	1.8	.0	.5	.0	81.2
0600Z	.8	3.8	.5	.0	.0	.0	.0	5.1	2.5	.7	2.8	.0	1.0	.0	88.1
1201Z	1.3	3.1	.1	.0	.0	.0	.0	4.5	2.8	.4	1.0	.0	1.1	.0	90.2
1802Z	2.9	2.4	1.2	.0	.0	.0	.4	6.6	1.8	4.7	2.3	.0	.7	.0	85.0
TOT PCT	1.7	3.1	.6	.0	.0	.0	.2	5.5	2.8	3.0	2.0	.0	.8	.0	86.3
TOT DBS:	3075														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.8	5.3	6.9	3.7	.5	*		17.2	15.4	16.6	19.3	18.6	17.2	14.5	14.5	16.2	18.7		
NE	.8	5.7	6.9	2.7	.4	*		16.5	14.3	15.8	16.2	11.4	12.9	16.4	21.8	21.2	20.7		
E	.6	2.6	1.8	.4	.1	*		5.4	11.0	3.4	4.0	4.2	4.8	6.6	8.7	6.8	5.5		
SE	.4	1.5	1.0	.3	*	*		3.3	11.0	3.3	3.3	2.6	3.1	3.2	4.1	4.0	2.9		
S	.5	3.1	3.0	1.3	.5	.1		8.4	14.9	10.7	8.1	6.9	8.1	9.1	9.4	9.5	7.1		
SW	.8	5.2	6.1	4.9	3.0	.7		20.6	20.4	19.8	17.8	21.4	18.6	29.9	20.6	22.9	17.6		
W	.7	5.1	4.2	3.4	2.3	1.0		16.6	20.3	18.8	16.6	20.2	20.1	13.2	13.5	11.8	15.3		
NW	.7	4.1	3.2	1.2	.5	.2		9.8	14.3	8.7	12.4	13.1	12.6	5.6	5.7	5.6	10.3		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.1							2.1	.0	2.9	2.3	1.7	2.6	1.5	1.8	2.0	1.9		
TOT DBS	518	2282	2320	1253	504	149	7026		16.2	450	843	1138	1532	471	663	1193	736		
TOT PCT	7.4	32.5	33.0	17.8	7.2	2.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.0	6.5	6.0	1.6	.2			17.2	15.4	18.4	17.8	14.5	17.1
NE	2.9	7.4	5.0	1.1	.1			16.5	14.3	16.1	12.3	19.5	21.0
E	1.7	2.6	.9	.2	*			5.4	11.0	3.8	4.6	7.8	6.3
SE	1.1	1.4	.6	.1	*			3.3	11.0	3.3	2.9	3.7	3.6
S	1.8	3.7	1.9	.8	.2			8.4	14.9	9.0	7.6	9.3	8.6
SW	2.9	6.2	5.5	4.1	1.8			20.6	20.4	18.5	19.8	24.4	20.9
W	2.7	5.4	3.7	3.0	1.8			16.6	20.3	17.4	20.2	13.4	13.1
NW	2.4	4.1	2.3	.7	.3			9.8	14.3	11.1	12.8	5.7	7.4
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0	2.5	2.2	1.7	2.0
TOT DBS	1440	2613	1823	813	317	7026		16.2		1293	2670	1134	1929
TOT PCT	20.8	37.2	25.9	11.6	4.5			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1871-1972
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
0000	2.5	5.4	36.3	29.1	16.8	8.0	1.9	15.8	1293
0600	2.2	4.9	30.6	32.8	18.4	8.2	2.8	17.0	2670
1200	1.7	4.7	34.0	34.7	17.9	6.0	1.1	15.6	1134
1800	2.0	6.0	31.7	35.0	17.7	5.9	1.8	15.7	1929
TOT	148	370	2282	2320	1253	504	149	16.2	7026
PCT	2.1	5.3	32.5	33.0	17.8	7.2	2.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	9-10 OBS	MEAN CLOUD COVER
N	8.6	2.6	2.9	.7		2.5
NE	10.1	2.4	2.9	.5		2.2
E	2.9	.7	1.2	.3		2.5
SE	1.1	.6	1.0	.5		4.0
S	2.8	2.2	3.4	1.1		4.0
SW	8.8	4.6	8.7	3.7		4.1
W	7.9	3.0	4.2	1.2		3.2
NW	4.8	1.0	1.2	.5		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.3	.2	.3	.2		2.1
TOT OBS	876	314	466	157	1813	3.1
TOT PCT	48.3	17.3	25.7	8.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.3	.6	.4	.2	.1	.2	.2	12.8	
NE	.0	.0	.1	.3	1.1	.2	.1	.1	.1	.1	13.7	
E	.0	*	.1	.2	.2	.1	.1	.1	.2	.1	4.0	
SE	.0	*	.1	.3	.5	.2	.1	.0	.0	.1	2.1	
S	.1	.0	.2	.7	1.7	.8	.1	.1	.0	.0	6.0	
SW	.1	.1	.7	2.1	3.9	2.1	.5	.1	.0	.2	16.1	
W	.0	.0	.1	.6	1.6	1.2	.2	.0	.1	.1	12.3	
NW	.0	.0	.0	.1	.5	.1	.0	.0	.1	.1	6.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	1.8	
TOT OBS	876	314	466	157	1813	92	20	10	13	18	1365	1813
TOT PCT	.1	.1	1.2	4.7	10.2	5.1	1.1	.6	.7	1.0	75.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>5000	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>3500	3.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5
>2000	7.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5
>1000	15.2	18.4	18.6	18.6	18.6	18.6	18.6	18.6
>600	17.8	22.6	23.1	23.2	23.2	23.2	23.2	23.2
>300	18.5	23.6	24.2	24.3	24.3	24.3	24.3	24.3
>150	18.6	23.7	24.3	24.4	24.4	24.4	24.4	24.4
>0	18.6	23.8	24.4	24.5	24.5	24.5	24.5	24.5
TOTAL	349	447	458	461	461	461	461	461

TOTAL NUMBER OF OBS: 1878

PCT FREQ NH <5/8: 75.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	28.8	16.3	11.7	10.1	7.8	6.5	6.6	5.7	6.4	.1	1984

PERIOD: (PRIMARY) 1871-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.8	.3	.1	.0	.1	.2	.1	.3	.0	.0	1.7	1.7
	TOT %	.8	.3	.1	.0	.1	.2	.1	.3	.0	.0	1.8	1.8
1<2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2
	TOT %	.0	.1	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
2<5	PCP	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.1	.5	.3	.0	.0	.1	.2	.2
5<10	PCP	.1	.3	.1	.1	.6	1.6	.7	.1	.0	.0	3.6	3.6
	NO PCP	5.4	4.1	1.2	1.1	3.1	5.9	2.6	2.5	.0	.1	26.1	26.1
	TOT %	5.5	4.4	1.3	1.2	3.7	7.5	3.3	2.6	.0	.1	29.6	29.6
10+	PCP	.0	.1	.0	.0	.2	.6	.1	.0	.0	.0	1.1	1.1
	NO PCP	10.4	11.4	3.5	1.9	5.9	15.3	11.1	5.3	.0	1.3	66.2	66.2
	TOT %	10.4	11.5	3.5	2.0	6.1	16.0	11.2	5.4	.0	1.3	67.3	67.3
TOT OBS													2925
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.5	.2	.0	.0	.0	.0	.1	.1	.0	.0	.8	.8
	22+	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.3	.3
	TOT %	.7	.3	.1	.0	.1	.2	.1	.2	.0	.0	1.6	1.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.4	.3	.0	.0	.0	.8	.8
	TOT %	.0	.1	.0	.0	.1	.6	.4	.0	.0	.1	1.4	1.4
5<10	0-3	.3	.3	.2	.1	.2	.3	.1	.3	.0	.1	1.8	1.8
	4-10	1.6	1.2	.5	.5	1.0	1.2	1.0	1.1	.0	.0	8.1	8.1
	11-21	1.7	1.8	.4	.4	1.1	2.1	.9	.8	.0	.0	9.1	9.1
	22+	1.2	.7	.0	.1	1.0	3.3	1.2	.3	.0	.0	7.8	7.8
	TOT %	4.8	3.9	1.2	1.1	3.2	6.9	3.2	2.4	.0	.1	26.8	26.8
10+	0-3	.5	.6	.4	.3	.2	.4	.6	.4	.0	1.4	4.7	4.7
	4-10	4.8	5.2	2.3	1.2	2.2	4.6	5.3	3.7	.0	.0	29.2	29.2
	11-21	3.6	4.5	1.0	.5	2.5	6.1	3.7	1.5	.0	.0	23.4	23.4
	22+	1.5	1.8	.2	.1	.9	5.1	2.6	.4	.0	.0	12.4	12.4
	TOT %	10.3	12.1	3.9	2.1	5.7	16.1	12.2	6.0	.0	1.4	69.8	69.8
TOT OBS													3465
TOT PCT													100.0

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PERIOD: (PRIMARY) 1971-1972
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	1.8	5.1	7.7	5.1	2.2	.4	1.1	.4	24.2	75.8	454
06009	.0	.0	1.3	3.9	12.3	3.9	1.2	.6	.4	1.2	24.7	75.3	519
12015	.0	.2	1.0	4.1	9.6	5.1	.4	.6	.4	1.4	22.8	77.2	509
18021	.0	.2	.4	4.8	8.9	5.6	.9	.4	1.3	.9	23.3	76.7	463
TOT	2	2	22	86	189	95	22	10	15	19	462	1483	1945
PCT	.1	.1	1.1	4.4	9.7	4.9	1.1	.5	.8	1.0	23.8	76.2	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	1.4	.3	.7	25.0	72.5	761
06009	.1	2.3	.4	1.6	29.3	66.3	1039
12015	.0	.9	.4	1.3	22.5	74.9	781
18021	.1	1.6	.3	1.8	31.4	64.8	1032
TOT	3	58	12	51	994	2495	3613
PCT	.1	1.6	.3	1.4	27.5	69.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	2.3	7.7	17.3	75.0	440
06009	.0	1.4	6.4	19.8	73.8	500
12015	.0	1.4	6.0	17.7	76.2	496
18021	.0	.7	5.9	18.6	75.6	442
TOT	2	27	122	345	1411	1878
PCT	.1	1.4	6.5	18.4	75.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.0	.0	.0	.0	.0	.0	1	*
75/79	.0	.0	.2	.4	.1	.5	.0	.0	27	1.3
70/74	*	.2	1.2	1.4	3.7	*6.3	3.9	1.1	358	17.7
65/69	*	.2	2.0	5.2	10.3	12.5	9.3	3.3	868	42.9
60/64	.0	*	.5	3.0	6.4	9.0	6.9	2.5	573	28.3
55/59	.0	.0	.1	.5	1.4	1.9	3.0	1.3	166	8.2
50/54	.0	.0	.0	.1	*	.3	.3	.4	25	1.2
45/49	.0	.0	.0	.0	.0	*	.1	*	4	.2
TOTAL	2	10	83	215	443	619	474	176	2022	100.0
PCT	.1	.5	4.1	10.6	21.9	30.6	23.4	8.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	*	.0	.0
75/79	.3	.5	.1	*	.1	.1	*	.1	.0	.0
70/74	5.5	3.9	.8	.2	.7	2.3	2.1	1.7	.0	.4
65/69	6.7	8.5	2.3	1.3	3.3	10.2	6.1	3.8	.0	.8
60/64	1.5	2.6	1.1	1.2	3.8	9.9	5.7	1.8	.0	.7
55/59	.3	.4	.1	.2	1.0	3.4	2.1	.8	.0	*
50/54	.0	.0	.0	.0	*	.5	.6	.1	.0	.0
45/49	.0	.0	.0	*	.0	.1	*	.0	.0	.0
TOTAL	14.4	15.8	4.3	3.0	9.0	26.5	16.7	8.3	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	74	72	66	58	55	52	65.6	1290
06009	84	76	74	68	59	54	49	67.3	2643
12015	81	77	74	68	60	56	49	67.9	1132
18021	81	73	72	67	59	55	50	66.6	1909
TOT	84	76	73	67	59	55	49	66.9	6974

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.2	13.1	19.7	31.3	24.7	11.0	74	498
06009	.0	15.9	23.4	26.6	23.6	10.5	73	572
12015	.2	21.3	24.2	29.3	20.7	4.3	70	508
18021	.0	10.5	20.6	34.2	23.9	10.8	74	544
TOT	2	321	467	643	493	196	73	2122

PERIOD: (PRIMARY) 1871-1972
(OVER-ALL) 1855-1972

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FDG	WG FDG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	.0	.1	*	3	.0	.1
9/10	.0	.0	.0	.0	*	*	*	*	.0	4	.0	.1
7/8	.0	.0	.0	.0	.1	.2	.3	.1	*	21	.0	.7
6	.0	.0	.0	.0	*	.2	.1	.0	.0	10	.0	.4
5	.0	.0	.0	*	.3	.4	.1	*	.0	26	.0	.9
4	.0	.0	*	.2	.4	.5	.3	.2	*	44	.0	1.5
3	.0	.0	*	.2	.4	.7	.7	.2	.0	60	*	2.1
2	.0	.0	*	.2	1.1	2.6	.6	*	.0	129	.1	4.4
1	.0	.0	.1	.4	1.4	3.6	.5	.0	.0	171	.3	5.7
0	.0	.0	.1	1.2	3.0	4.8	1.1	*	.0	293	.5	9.7
-1	.0	*	.2	1.1	4.0	4.6	.7	.0	.0	303	.5	10.1
-2	.0	*	.2	1.6	5.1	3.7	.2	.0	.0	314	.2	10.8
-3	.0	.0	.4	1.7	5.4	2.0	.1	.0	.0	273	.2	9.4
-4	.0	.1	.4	2.8	4.9	1.6	.1	.0	.0	283	*	9.9
-5	.0	.1	.8	3.6	3.3	.9	.0	.0	.0	249	.0	8.7
-6	.0	.1	.6	2.5	2.1	.3	.0	.0	.0	159	.1	5.5
-7/-8	*	.2	1.8	4.4	2.3	.2	.0	.0	.0	257	.1	8.9
-9/-10	.1	.3	1.6	1.9	.6	.0	.0	.0	.0	129	.0	4.5
-11/-13	*	.4	1.6	.9	.1	.0	.0	.0	.0	88	.0	3.1
-14/-16	.1	.4	.5	.1	.0	.0	.0	.0	.0	30	.0	1.1
-17/-19	*	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
-20/-22	*	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	9	50	243	653	750	142	19	3		2854	59	2795
PCT	.3	1.8	8.5	22.9	34.5	26.3	5.0	.7	.1	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.8	.1	.0	.0	.0	1.4	.1	.4	.0	.0	.0	.0	.5
1-2	.0	2.8	.9	.0	.0	.0	3.8	*	3.3	1.0	.0	.0	.0	4.3
3-4	.0	1.2	2.0	.2	.0	.0	3.4	.0	1.8	2.0	.3	.0	.0	4.1
5-6	.0	.3	1.4	.8	.0	.0	2.5	.0	.3	1.7	.7	.0	.0	2.8
7	.0	.0	.8	.5	.0	.0	1.3	.0	.0	.7	1.0	.2	.0	1.9
8-9	.0	.0	.4	.6	.1	.0	1.1	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.0	.4	.2	.0	.6	.0	.0	.0	.2	.6	*	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	*	.0	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.1	5.7	2.8	.5	.0	14.6	.1	5.7	5.9	3.1	.2	.0	15.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.7	.3	.1	.0	.0	.0	.0	.4
1-2	.3	1.6	.0	.0	.0	.0	1.9	.2	1.1	.2	.0	.0	.0	1.4
3-4	.0	.2	.7	.0	.0	.0	.9	.0	.6	.3	.0	.0	.0	.9
5-6	.0	.2	.6	.0	.0	.0	.8	.0	*	.1	.1	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.6	1.2	.0	.0	.0	4.4	.5	1.8	.6	.2	.0	.0	3.1

PERIOD: (OVER-ALL) 1963-1972

JUNE

AREA 0021 EAST LONDON
32.55 29.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0		.4	.3	.6	.0	.0	.0	.0		.9
1-2	.1	2.1	.5	.0	.0	.0		2.7	.1	3.1	.8	.0	.0	.0		4.0
3-4	.0	1.1	1.6	.0	.0	.0		2.7	.0	1.7	2.6	.2	.0	.0		4.5
5-6	.0	.1	1.1	.4	.0	.0		1.6	.0	.7	3.1	.8	.1	.0		4.8
7	.0	.0	1.0	.2	.0	.0		1.2	.0	.2	1.3	1.4	.8	.0		3.7
8-9	.0	.0	.1	.4	.2	.0		.7	.0	.0	1.2	1.5	.6	.0		3.4
10-11	.0	.0	.3	.4	.2	.0		.8	.0	.0	.2	1.1	.3	.0		1.7
12	.0	.0	.0	.1	.1	.0		.2	.0	.0	.2	.1	.4	.0		.7
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.9	.4	.0		1.4
17-19	.0	.0	.0	.2	.1	.0		.3	.0	.0	.0	.3	.2	.1		.6
20-22	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.1	.5	.0		.6
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.1		.1
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	3.6	4.6	1.7	.5	.0		10.6	.4	6.2	9.5	6.6	9.4	.2		26.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.4	1.1	.0	.0	.0	.0		1.5	.2	.6	.0	.0	.0	.0		.7	
1-2	.1	3.5	.7	.0	.0	.0		4.3	.2	1.9	.1	.0	.0	.0		2.2	
3-4	.0	1.9	2.4	.2	.0	.0		4.4	.0	1.1	.7	.0	.0	.0		1.8	
5-6	.0	.5	1.9	.3	.1	.0		2.8	.0	.1	.3	.2	.0	.0		.6	
7	.0	.0	.3	1.2	.3	.0		1.7	.0	.0	.3	.2	.0	.0		.5	
8-9	.0	.0	.1	.2	.2	.0		.5	.0	.0	.1	.1	.2	.0		.5	
10-11	.0	.0	.2	.5	.1	.0		.7	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.1	.3	.0	.0		.4	.0	.0	.1	.0	.0	.0		.1	
13-16	.0	.0	.0	.1	.2	.0		.3	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.1	.1	.1		.2	.0	.0	.0	.0	.1	.0		.1	
20-22	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.1	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.6	6.9	5.5	2.9	1.1	.1		17.0	.3	3.6	1.7	.5	.3	.0		6.4	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.6	4.6	.1	.0	.0	.0	10.2	
1-2	1.1	19.4	4.3	.0	.0	.0	24.7	
3-4	.0	9.4	12.1	.9	.0	.0	22.4	
5-6	.0	2.2	10.0	3.2	.2	.0	15.7	
7	.0	.2	4.3	4.5	1.2	.0	10.1	
8-9	.0	.1	2.2	3.2	1.3	.0	6.8	
10-11	.0	.0	.8	2.9	.8	.0	4.5	
12	.0	.0	.3	.5	.5	.0	1.2	
13-16	.0	.0	.1	1.2	.7	.0	1.9	
17-19	.0	.0	.0	.5	.2	.0	1.2	
20-22	.0	.0	.0	.2	.5	.0	.7	
23-25	.0	.0	.0	.1	.1	.0	.2	
26-32	.0	.0	.0	.0	.2	.1	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	35.9	34.1	17.3	5.8	.2	100.0	1293

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.0	4.5	5.6	4.6	3.5	2.3	1.7	.3	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	389	5
6-7	.0	.5	2.5	4.9	4.3	3.7	3.2	1.6	1.3	.6	.3	.5	.1	.1	.0	.0	.0	.0	.0	371	8
8-9	.0	.2	1.0	3.0	4.4	2.8	3.4	2.0	2.3	1.0	.5	.3	.1	.1	.0	.0	.0	.0	.0	335	9
10-11	.0	.1	.6	.6	1.8	1.5	1.7	1.4	2.1	.6	.7	.3	.3	.1	.0	.0	.0	.0	.0	186	11
12-13	.0	.0	.3	.4	.4	.4	.6	.5	1.3	.7	.3	.3	.5	.2	.0	.0	.0	.0	.0	93	14
13	.0	.0	.0	.3	.2	.1	.6	.3	.7	.2	.5	.3	.1	.0	.0	.0	.0	.0	.0	51	14
INDET	1.1	.3	1.3	2.1	1.0	.8	.8	1.0	.7	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	153	7
TOTAL	33	89	180	252	247	184	188	112	145	61	38	24	19	6	0	0	0	0	0	1578	8
PCT	2.1	5.6	11.4	16.0	15.7	11.7	11.9	7.1	9.2	3.9	2.4	1.5	1.2	.4	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1874-1973
(OVER-ALL) 1854-1973

JULY

AREA 0021 EAST LONDON
32.95 29.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.4	.4	.0	.0	.0	.0	.0	.9	.4	1.6	4.0	.0	1.5	.0	91.6
NE	.2	.4	.0	.0	.0	.0	.0	.7	.6	2.0	1.0	.0	1.6	.0	93.6
E	2.8	1.7	.5	.0	.0	.0	.0	5.0	.5	4.3	3.7	.0	1.4	.0	87.3
SE	2.8	1.0	1.9	.0	.0	.0	.0	11.7	6.1	3.5	.0	.0	1.2	.0	79.0
S	3.5	2.0	1.8	.0	.0	.0	.2	10.4	2.9	3.8	2.1	.0	.0	.0	82.6
SW	3.1	4.8	1.0	.0	.0	.0	.1	8.9	3.9	2.2	.9	.0	.4	.0	84.5
W	3.4	2.6	.4	.0	.0	.0	.0	6.5	3.4	2.8	1.7	.0	.8	.0	86.3
NW	.9	2.4	.4	.0	.0	.0	.0	3.7	.5	3.2	2.4	.0	1.4	.0	89.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	2.3	.0	95.5
TOT PCT	2.0	2.7	.6	.0	.0	.0	*	5.4	2.2	2.5	2.0	.0	1.0	.0	87.8
TOT OBS:	3282														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.5	2.8	.8	.0	.0	.0	.0	7.0	2.4	5.2	1.3	.1	.6	.0	84.5
0600	1.8	3.3	.5	.0	.0	.0	.0	5.7	1.5	.9	3.3	.0	1.0	.0	88.1
1200	1.1	2.0	.4	.0	.0	.0	.0	3.5	2.2	.4	1.9	.0	1.2	.0	91.1
1800	2.1	2.4	.7	.0	.0	.0	.1	5.3	2.4	4.0	1.2	.0	1.1	.0	87.3
TOT PCT	2.1	2.7	.6	.0	.0	.0	*	5.4	2.1	2.6	2.0	*	1.0	.0	87.8
TOT OBS:	3423														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.9	6.2	2.4	.4	*		14.6	14.6		14.8	15.9	16.7	14.7	12.0	12.3	14.0	15.2
NE	.6	6.3	6.8	3.2	.4	.0		17.3	14.4		20.1	16.7	12.9	14.0	20.7	17.6	21.2	18.5
E	.6	3.1	1.7	.7	.1	*		6.3	11.6		3.9	4.2	5.2	5.4	6.8	8.9	8.6	7.4
SE	.4	1.7	1.3	.4	.1	*		3.9	11.9		2.3	4.4	2.7	3.4	4.9	5.5	4.5	3.9
S	.7	3.1	2.6	1.6	.6	.2		8.7	16.1		8.3	6.7	8.3	8.5	11.0	9.8	10.1	7.2
SW	.8	5.0	7.8	5.2	2.0	.8		21.7	19.6		25.1	18.3	22.4	20.0	28.4	22.9	21.4	18.5
W	.9	4.9	5.2	2.8	1.4	.8		16.0	18.3		15.7	18.2	18.2	19.6	10.4	14.2	11.8	17.1
NW	.6	4.4	3.0	.8	.3	.3		9.5	13.5		7.8	13.6	11.9	11.3	3.8	7.4	6.4	10.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		1.8	2.1	1.7	3.1	1.9	1.4	2.0	1.4
TOT DBS	473	2172	2248	1103	346	141	6483		15.7		551	753	1031	1257	568	553	1131	639
TOT PCT	7.3	33.5	34.7	17.0	5.3	2.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	03	06	12
N	2.7	6.1	4.5	1.2	.1		14.6	14.6		15.4	15.6	12.1	14.4
NE	2.9	8.0	5.0	1.3	.1		17.3	14.4		18.1	13.5	19.2	20.3
E	2.0	2.9	1.0	.4	*		6.3	11.6		4.1	5.3	7.9	8.1
SE	1.1	1.7	.8	.2	*		3.9	11.9		3.5	3.1	5.2	4.3
S	1.9	3.2	2.1	1.1	.4		8.7	16.1		7.4	8.4	10.4	9.1
SW	2.7	7.4	6.5	3.6	1.6		21.7	19.6		21.2	21.1	25.7	20.4
W	3.0	5.7	3.9	2.1	1.3		16.0	18.3		17.2	19.0	12.3	13.7
NW	2.7	4.2	1.8	.4	.5		9.5	13.5		11.2	11.6	5.6	7.9
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	2.1						2.1	.0		2.0	2.5	1.7	1.8
TOT DBS	1356	2540	1664	662	281	6483		15.7		1304	2288	1121	1770
TOT PCT	20.9	39.2	25.7	10.2	4.0		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1874-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.0	5.8	35.6	35.3	15.5	4.1	1.7	14.8	100.0	1304
0609	2.5	5.6	32.5	33.1	17.5	5.9	2.9	16.2	100.0	2288
1215	1.7	4.5	34.5	34.5	18.3	5.1	1.4	15.7	100.0	1121
1821	1.8	4.9	32.6	36.4	16.7	5.6	2.0	15.7	100.0	1770
TOT	134	339	2172	2248	1103	346	141	15.7		6483
PCT	2.1	5.2	33.5	34.7	17.0	5.3	2.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.3	2.4	2.4	.7	2.3	
NE	13.8	2.6	3.0	.5	1.9	
E	3.4	.5	.7	.5	2.3	
SE	1.1	.6	.8	.6	4.2	
S	3.1	2.2	2.9	1.6	4.1	
SW	9.3	5.7	7.3	3.5	3.9	
W	6.7	2.3	3.5	1.3	3.2	
NW	3.7	.9	.9	.3	2.2	
VAR	.0	.0	.0	.0	.0	
CALM	1.1	.2	.4	.1	2.3	
TOT OBS	1118	378	478	196	2170	
TOT PCT	51.5	17.4	22.0	9.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	249	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.1	.4	.8	.5	.3	*	*	.1	12.5	
.0	.0	.1	.3	1.0	.5	.4	.0	*	.1	17.6	
*	.0	.0	.1	.3	.3	*	.1	.0	.0	4.1	
.0	.0	.0	.2	.6	.3	.0	*	*	.0	2.0	
*	*	.3	.8	1.9	.4	.2	.1	*	.0	6.0	
.1	*	.4	1.8	3.9	1.6	.5	.1	*	.1	17.3	
.0	.0	*	.7	1.4	.8	.1	.0	.0	.1	10.5	
.0	*	.1	.3	.1	.3	.0	.0	.0	*	5.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	.0	.0	.0	.2	.1	.0	.0	.0	.0	1.5	
.4	3	20	98	223	104	35	7	3	10	1663	2170
.2	.1	.9	4.5	10.3	4.8	1.6	.3	.1	.5	76.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
* OR >6500	.4	.6	.7	.7	.7	.7	.7	.7
* OR >4000	.5	.9	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	1.7	2.5	2.6	2.6	2.6	2.6	2.6	2.6
* OR >2000	5.9	7.3	7.4	7.4	7.4	7.4	7.4	7.4
* OR >1000	14.0	17.4	17.6	17.6	17.6	17.6	17.6	17.6
* OR >600	16.8	21.7	22.0	22.1	22.1	22.1	22.1	22.1
* OR >300	17.3	22.4	23.0	23.1	23.1	23.1	23.1	23.1
* OR >150	17.3	22.5	23.1	23.2	23.3	23.3	23.3	23.3
* OR >0	17.4	22.6	23.2	23.3	23.4	23.4	23.4	23.4
TOTAL	390	507	520	522	525	525	526	526

TOTAL NUMBER OF OBS: 2244

PCT FREQ NH <5/8 76.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
32.0	13.8	12.9	10.3	6.4	5.1	6.2	5.6	6.9	.2	2346

PERIOD: (PRIMARY) 1974-1973
(OVER-ALL) 1954-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.1	.1
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.1	.1
1/2<1	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.3	.1	.0	.1	.2	.2	.1	.0	.0	.0	1.5
	TOT %	.5	.3	.1	.1	.2	.2	.2	.1	.0	.0	.0	1.8
1-2	PCP	.0	.0	.0	*	.0	*	*	.0	.0	.0	.0	.1
	NO PCP	.1	.1	.0	.0	*	.1	*	.0	.0	.0	.0	.3
	TOT %	.1	.1	.0	*	*	.1	.1	*	.0	.0	.0	.4
2<5	PCP	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3
	NO PCP	.1	.1	*	.0	*	.2	*	*	.0	.0	.0	.5
	TOT %	.1	.1	*	.0	.1	.3	.2	*	.0	.0	.0	.7
5<10	PCP	.1	.1	.3	.2	.7	1.3	.5	.2	.0	.0	.0	3.4
	NO PCP	3.9	5.1	1.9	.7	3.0	6.4	2.7	2.4	.0	.1	.0	26.7
	TOT %	4.0	5.2	2.2	.9	3.7	7.7	3.1	2.6	.0	.1	.0	29.6
10+	PCP	*	*	*	.1	.2	.8	.3	*	.0	.0	.0	1.4
	NO PCP	9.7	13.3	3.5	2.1	5.9	16.2	9.9	4.1	.0	1.2	.0	66.0
	TOT %	9.7	13.4	3.6	2.2	6.1	17.0	10.2	4.1	.0	1.2	.0	67.4
TOT OBS													3278
TOT PCT		14.4	19.1	5.9	3.2	10.2	25.2	13.8	7.0	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.0
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.1	.1
1/2<1	0-3	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	.1
	4-10	.1	.1	.1	*	.1	.1	.1	*	.0	.0	.4	.4
	11-21	.2	*	*	.0	.1	*	*	*	.0	.0	.3	.3
	22+	.2	.1	.1	*	*	.1	.1	.1	.0	.0	.7	.7
	TOT %	.4	.2	.1	.1	.2	.2	.2	.1	.0	.0	1.5	1.5
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	*	*	.0	.0	*	*	*	.0	.0	.0	.1	.1
	11-21	.1	.1	*	.1	.0	*	*	.0	.0	.0	.2	.2
	22+	.0	*	.1	*	*	.1	*	*	.0	.0	.3	.3
	TOT %	.1	.1	.2	.1	*	.1	.1	*	.0	.0	.7	.7
2<5	0-3	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	.1
	4-10	.0	.0	.1	.0	*	.1	.1	*	.0	.0	.3	.3
	11-21	*	.1	*	*	*	*	.1	.0	.0	.0	.3	.3
	22+	*	.1	*	*	*	.2	.1	.0	.0	.0	.4	.4
	TOT %	.1	.1	.1	*	.1	.3	.2	*	.0	.0	1.0	1.0
5<10	0-3	.1	.1	.2	.1	.2	.3	.3	.2	.0	.2	1.5	1.5
	4-10	1.1	1.5	.8	.3	1.0	1.7	.9	1.2	.0	.0	8.6	8.6
	11-21	1.7	1.7	.6	.4	1.0	2.3	1.0	.8	.0	.0	9.4	9.4
	22+	.7	1.3	.4	.2	1.2	2.6	.8	.3	.0	.0	7.4	7.4
	TOT %	3.6	4.6	1.9	.9	3.4	6.9	2.9	2.4	.0	.2	26.9	26.9
10+	0-3	.4	.4	.3	.2	.4	.4	.6	.3	.0	1.3	4.3	4.3
	4-10	3.7	5.7	2.1	1.3	2.3	4.1	3.9	2.8	.0	.0	25.9	25.9
	11-21	4.3	5.4	1.2	.7	2.0	7.6	4.4	1.7	.0	.0	27.2	27.2
	22+	1.3	2.2	.2	.2	1.1	5.2	2.3	.2	.0	.0	12.5	12.5
	TOT %	9.6	13.6	3.8	2.3	5.8	17.4	11.0	4.9	.0	1.3	69.9	69.9
TOT OBS													3811
TOT PCT		13.8	18.7	6.2	3.3	9.5	24.9	14.4	7.6	.0	1.5	100.0	

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PERIOD: (PRIMARY) 1874-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	5499	6499	7999				
00003	.7	.0	1.0	4.1	8.8	3.8	1.2	.2	.0	.7	20.4	79.6	582
06009	.0	.2	1.4	3.9	13.4	4.4	1.4	.5	.2	.9	26.2	73.8	569
12015	.0	.3	.7	5.1	9.4	5.9	2.1	.2	.3	.2	24.3	75.7	606
18021	.0	.0	.7	4.5	8.2	4.7	1.5	.4	.0	.4	20.3	79.7	551
TOT	4	3	22	102	229	109	36	7	3	12	527	1781	2308
PCT	.2	.1	1.0	4.4	9.9	4.7	1.6	.3	.1	.5	22.8	77.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
(GMT)							
00003	.1	1.0	.2	.6	24.7	73.4	899
06009	.0	2.3	.7	1.0	31.2	64.7	1070
12015	.0	1.5	.8	1.3	21.6	74.8	870
18021	.1	1.0	.8	1.0	30.6	66.5	1113
TOT	2	58	26	38	1085	2743	3952
PCT	.1	1.5	.7	1.0	27.5	69.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	.7	1.8	6.3	15.0	78.8	560
06009	.0	1.6	6.3	20.9	72.8	555
12015	.0	1.2	6.9	18.2	75.0	595
18021	.0	.9	5.8	15.5	78.7	534
TOT	4	31	142	391	1711	2244
PCT	.2	1.4	6.3	17.4	76.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	*	*	*	.0	*	.0	.0	.0	4	.2
75/79	.0	.0	.1	.1	.4	.3	.1	.0	22	1.0
70/74	.0	.1	.5	1.0	2.7	2.7	3.4	1.3	266	11.6
65/69	.0	.1	.4	3.4	7.6	12.9	13.4	7.0	1028	44.8
60/64	.0	*	.6	3.4	8.4	9.0	7.6	2.1	715	31.2
55/59	.0	.0	.0	.7	2.5	4.1	2.0	.8	232	10.1
50/54	.0	.0	.0	.1	*	.3	.3	.2	23	1.0
45/49	.0	.0	.0	.0	.1	.0	*	.0	3	.1
TOTAL	1	7	36	198	500	673	616	262	2293	100.0
PCT	*	.3	1.6	8.6	21.8	29.4	26.9	11.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	*	*	*	.0	.0	.1	*	.0	.0
75/79	.1	.1	.1	*	.0	*	.2	.2	.0	.2
70/74	3.3	3.7	.6	.2	.6	1.1	.8	1.1	.0	.2
65/69	9.0	11.4	2.6	1.5	3.2	9.2	4.6	2.7	.0	.7
60/64	1.7	3.0	2.1	1.1	4.2	11.4	5.9	1.3	.0	.5
55/59	.3	.6	.3	.3	1.3	3.5	2.8	.8	.0	.2
50/54	.0	*	.1	.1	.2	.4	.3	.0	.0	.0
45/49	.0	.0	.0	.0	.1	*	.0	.0	.0	.0
TOTAL	14.4	18.9	5.8	3.2	9.5	25.6	14.6	6.1	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	79	72	70	65	57	53	49	64.3	1317
06009	80	75	72	66	58	54	48	65.7	2281
12015	83	76	73	67	59	56	50	66.8	1116
18021	84	72	70	66	59	54	51	65.2	1778
TOT	94	74	72	66	58	54	48	65.5	6492

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	8.9	15.7	32.9	28.2	14.3	77	593
06009	.0	13.2	23.1	26.5	27.0	10.2	74	589
12015	.0	12.9	28.8	29.5	21.9	6.9	72	590
18021	.2	6.4	19.8	29.4	30.2	14.1	77	612
TOT	1	246	520	705	640	272	75	2384

PERIOD: (PRIMARY) 1874-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WC FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	*	.0	.1	*	.0	4	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.1	*	6	.0	.2
7/8	.0	.0	.0	.0	.0	.3	.3	.1	.1	*	26	.0	.8
6	.0	.0	.0	.0	.1	.1	.2	.2	*	.0	20	.0	.6
5	.0	.0	.0	.0	.1	.2	.3	.3	.1	*	28	.0	.9
4	.0	.0	.0	.1	.1	.5	.6	.3	.0	.0	50	*	1.6
3	.0	.0	*	.0	*	.7	.8	.3	.0	.0	59	.1	1.8
2	.0	.0	.0	.0	.5	1.7	2.1	.4	*	.0	148	.2	4.5
1	.0	.0	.0	*	.7	2.2	3.2	.2	*	.0	200	.2	6.1
0	.0	.0	.0	.2	1.4	4.2	4.1	.1	.1	.0	318	.3	9.8
-1	.0	.0	.0	.2	1.5	5.4	3.4	*	*	.0	334	.1	10.4
-2	.0	.0	*	.4	2.4	6.4	2.7	*	*	.0	379	.3	11.7
-3	.0	.0	*	.7	3.0	5.9	.9	.1	.0	.0	334	.2	10.3
-4	.0	*	.1	.4	3.5	4.3	.5	.0	.0	.0	280	.2	8.7
-5	.0	.0	.1	1.3	3.6	3.1	.3	.0	.0	.0	265	.1	8.3
-6	.0	.0	.1	1.2	3.2	1.3	.1	.0	.0	.0	186	*	5.9
-7/-8	*	*	.3	2.2	5.0	1.0	.1	.0	.0	.0	275	.1	8.6
-9/-10	.0	*	.6	1.8	2.0	.2	*	.0	.0	.0	149	.1	4.6
-11/-13	.0	.1	.5	1.2	.4	.1	.0	.0	.0	.0	73	*	2.3
-14/-16	.0	.1	.4	.2	*	.0	.0	.0	.0	.0	23	.0	.7
-17/-19	.0	*	.0	*	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	11	73	312	871	1190	619	64	16	4	3161	63	3098
PCT	*	.3	2.3	9.9	27.6	37.6	19.6	2.0	.5	.1	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.7	.0	.0	.0	.0	.8	<1	.1	.8	.0	.0	.0	.0	.9
1-2	.4	2.7	.7	.0	.0	.0	3.8	1-2	.1	4.4	1.2	.0	.0	.0	5.8
3-4	.0	1.2	2.6	.2	.0	.0	3.9	3-4	*	2.2	2.5	.1	.0	.0	4.8
5-6	.0	.3	2.2	.2	.0	.0	2.7	5-6	.0	.3	3.0	.9	.0	.0	4.2
7	.0	.1	1.1	.8	.0	.0	2.0	7	.0	.1	1.0	.9	.1	.0	2.1
8-9	.0	.0	.1	.5	.0	.0	.6	8-9	.0	.0	.3	.2	.3	.0	.8
10-11	.0	.0	.1	.1	.0	.0	.4	10-11	.0	.0	.1	.2	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.1	.2	.1	.0	.3
13-16	.0	.0	.1	.0	*	.0	.1	13-16	.0	.0	.0	.1	*	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.1	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.1	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.9	6.8	1.9	.2	.0	14.3	TOT PCT	.3	7.8	8.2	2.6	.6	.0	19.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	<1	.1	.4	*	.0	.0	.0	.5
1-2	.1	1.4	.3	.0	.0	.0	1.7	1-2	.1	1.1	.1	.0	.0	.0	1.3
3-4	.1	.8	.7	.0	.0	.0	1.6	3-4	.0	.7	.6	*	.0	.0	1.3
5-6	.0	.2	.7	*	.0	.0	1.0	5-6	.0	*	.2	.0	.0	.0	.2
7	.0	.0	.1	.1	.0	.0	.2	7	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	*	.0	.0	*	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	*	.0	*	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.5	1.7	.3	*	.0	4.9	TOT PCT	.2	2.2	.9	.1	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0021 EAST LONDON
32.55 29.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.2	.*	.0	.0	.0	.6	.1	.2	.*	.0	.0	.0	.3	
1-2	.1	1.9	.3	.0	.0	.0	2.2	.3	2.8	.9	.0	.0	.0	4.0	
3-4	.*	1.1	1.4	.1	.0	.0	2.7	.*	2.0	3.8	.7	.0	.0	6.5	
5-6	.0	.0	.8	.4	.0	.0	1.1	.0	.3	4.0	1.2	.*	.0	5.5	
7	.0	.2	.5	.5	.1	.0	1.3	.1	.*	2.1	1.5	.1	.0	3.7	
8-9	.0	.1	.2	.7	.0	.0	.9	.0	.1	.4	1.0	.*	.0	1.5	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.8	.1	.1	1.2	
12	.0	.0	.0	.*	.0	.0	.*	.0	.0	.1	.2	.1	.1	.6	
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.6	.5	.0	1.2	
17-19	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.3	.3	.1	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.5	.0	.6	
23-25	.0	.0	.0	.1	.*	.0	.1	.0	.0	.1	.1	.2	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.5	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.5	3.1	2.0	.4	.0	9.5	.5	5.4	11.8	6.5	2.0	.4	26.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.5	.*	.0	.0	.0	.6	.*	.5	.1	.0	.0	.0	.6	
1-2	.7	3.0	.4	.0	.0	.0	4.1	.4	1.6	.*	.0	.0	.0	2.0	
3-4	.1	.9	1.9	.2	.0	.0	3.1	.*	1.3	.9	.*	.0	.0	2.2	
5-6	.0	.2	1.4	.8	.*	.0	2.4	.0	.1	.4	.1	.0	.0	.5	
7	.0	.0	1.1	.9	.0	.0	2.0	.0	.0	.2	.1	.0	.0	.4	
8-9	.0	.0	.4	.3	.2	.0	.9	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.1	.4	.0	.1	.5	.0	.0	.*	.0	.0	.0	.*	
12	.0	.0	.0	.1	.*	.0	.1	.0	.0	.*	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.1	.0	.3	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	4.6	5.4	3.0	.7	.1	14.6	.4	3.5	1.7	.3	.0	.0	5.8	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	3.5	.2	.0	.0	.0	7.2	
1-2	2.5	18.8	3.7	.0	.0	.0	25.0	
3-4	.3	9.9	13.9	1.4	.0	.0	25.5	
5-6	.0	1.4	12.4	3.5	.1	.0	17.3	
7	.1	.4	6.1	4.7	.3	.0	11.4	
8-9	.0	.2	1.3	2.7	.6	.0	4.8	
10-11	.0	.0	.6	1.7	.2	.1	2.6	
12	.0	.0	.2	.5	.3	.1	1.1	
13-16	.0	.0	.2	.9	.8	.0	1.9	
17-19	.0	.1	.0	.4	.6	.1	1.1	
20-22	.0	.0	.3	.1	.5	.0	.9	
23-25	.0	.0	.1	.2	.3	.0	.5	
26-32	.0	.0	.0	.2	.3	.1	.6	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	34.2	38.9	16.3	3.8	.4	100.0	1586

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.4	3.4	4.7	4.4	4.2	1.7	1.2	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	393	5
4-7	.0	.4	1.7	3.3	5.8	2.9	3.1	1.2	1.0	.6	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	386	8
8-9	.0	.0	.6	2.5	4.3	2.8	3.2	1.8	3.1	1.0	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	377	10
10-11	.0	.2	.4	1.2	2.0	3.2	2.2	1.1	1.9	.8	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	262	10
12-13	.0	.0	.2	.3	.6	1.8	1.3	.6	1.0	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	123	10
13	.0	.0	.0	.4	.4	.3	.4	.4	.8	.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	68	13
14-15	1.3	.7	1.6	2.3	2.8	1.8	1.3	.5	1.3	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	261	7
TOTAL	33	88	172	271	376	270	238	109	181	60	38	16	18	0	0	0	0	0	0	0	1870	8
PCT	1.8	4.7	9.2	14.5	20.1	14.4	12.7	5.8	9.7	3.2	2.0	.9	1.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1854-1973

AUGUST

AREA 0021 EAST LONDON
32.65 29.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	.0	.8	.0	.0	.0	.0	.0	.8	.0	1.3	5.9	.0	3.2	.5
NE	.6	.6	.2	.0	.0	.0	.0	1.4	1.2	1.9	2.6	.0	4.3	.7
E	2.7	.9	1.0	.0	.0	.0	.0	4.7	4.6	3.0	.6	.0	1.8	.4
SE	6.2	3.0	1.1	.0	.0	.0	.0	10.1	4.1	.0	1.9	.0	.7	.0
S	4.2	3.4	3.0	.0	.0	.0	.0	10.0	3.2	.5	2.2	.0	.6	.0
SW	3.8	3.2	.8	.0	.0	.0	.1	7.3	3.2	1.5	1.8	.0	1.4	.5
W	4.4	2.2	.7	.0	.0	.0	.0	7.2	1.3	3.6	.9	.0	1.8	.3
NW	1.5	.4	.0	.0	.0	.0	.0	2.0	.0	4.0	5.5	.9	3.3	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	3.0	.0	.0	.0	.0	.0	3.0	.0	3.0	3.0	.0	3.0	.0
TOT PCT	2.4	1.8	.7	.0	.0	.0	*	4.7	2.0	1.9	2.6	*	2.5	.3
TOT OBS:	3029													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FUG WD PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
0000Z	2.1	2.1	1.1	.0	.0	.0	.0	5.1	2.1	3.0	1.2	.1	1.4	.3
0600Z	2.7	2.0	.6	.0	.0	.0	.0	4.9	2.0	.6	4.1	.0	2.6	.2
1201Z	1.7	1.9	.7	.0	.0	.0	.0	4.3	2.5	.3	2.4	.0	4.0	.6
1802Z	2.7	1.2	.4	.0	.0	.0	.1	4.2	1.5	3.6	2.4	.0	2.2	.4
TOT PCT	2.3	1.8	.7	.0	.0	.0	*	4.6	2.0	1.9	2.6	*	2.5	.4
TOT OBS:	3108													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	3.5	5.4	3.5	.8	.1		14.1	17.2		13.5	16.3	16.2	15.9	10.0	12.6	11.7	15.1
NE	.8	5.7	9.8	6.7	1.6	.2		24.8	18.1		29.0	22.0	23.0	18.6	31.3	24.3	27.6	26.5
E	.5	3.0	2.7	1.1	.3	*		7.5	13.9		5.9	5.6	5.4	7.3	9.7	11.2	9.1	7.4
SE	.4	2.1	1.5	.3	.3	*		4.6	12.9		3.8	4.2	3.9	4.6	4.8	4.6	5.4	5.0
S	.5	3.0	3.6	1.8	.4	.1		9.4	15.7		7.6	8.5	7.2	9.7	12.1	9.9	11.1	9.9
SW	.6	3.8	7.0	6.1	2.4	.5		20.4	20.8		22.9	17.6	20.1	19.1	23.2	22.7	22.1	16.2
W	.7	3.2	3.6	2.4	1.2	.5		11.7	19.2		11.5	14.6	14.4	14.7	6.5	9.7	8.3	10.9
NW	.5	2.4	1.5	.9	.2	*		5.6	13.5		3.2	8.4	8.5	7.6	1.4	4.2	3.1	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		2.6	2.5	1.2	2.5	1.1	.7	1.6	3.0
TOT DBS	403	1640	2170	1405	446	93	6157		17.3		578	668	1081	1018	556	534	1098	626
TOT PCT	6.5	26.6	35.2	22.8	7.2	1.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+ TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.0	4.9	5.0	2.0	.2				15.0	16.1	11.3	12.9
NE	2.8	8.8	8.8	3.8	.6				24.8	18.1	25.3	27.8
E	1.5	3.5	1.9	.6	*				7.5	13.9	5.8	10.4
SE	1.2	2.0	.9	.3	.1				4.6	12.9	4.0	4.7
S	1.7	3.8	2.7	1.1	.2				9.4	15.7	8.1	11.0
SW	2.0	6.1	6.6	4.5	1.2				20.4	20.8	20.0	23.0
W	1.8	4.1	3.0	1.8	1.0				11.7	19.2	13.2	14.6
NW	1.5	2.3	1.3	.5	.1				5.6	13.5	6.0	8.1
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0
CALM	1.9								1.9	.0	2.6	1.8
TOT DBS	1008	2184	1860	897	208	6157			1248	2099	1090	1722
TOT PCT	16.4	35.5	30.2	14.6	3.4				100.0	17.3	100.0	100.0

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	2.6	5.7	27.9	34.6	20.9	7.0	1.4	16.6	100.0	1246
06009	1.8	5.1	25.3	35.6	23.5	7.0	1.8	17.5	100.0	2099
12015	.9	2.8	26.7	37.4	23.7	7.5	1.0	17.7	100.0	1090
18021	2.1	4.6	27.2	33.9	22.9	7.6	1.6	17.3	100.0	1722
TOT	116	287	1640	2170	1405	446	93	17.3		6157
PCT	1.9	4.7	26.6	35.2	22.8	7.2	1.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	2.4	2.5	.8		2.7
NE	19.5	4.7	4.9	1.6		2.2
E	3.1	1.0	2.0	1.4		3.8
SE	1.0	.6	1.4	1.2		5.1
S	2.1	1.6	3.0	2.2		4.9
SW	7.4	3.8	7.6	3.8		4.2
W	3.8	1.8	3.0	1.1		3.7
NW	1.4	.5	.5	.2		2.7
VAR	.0	.0	.0	.0		.0
CALM	.8	.1	.2	.2	2167	2.3
TOT OBS	992	358	544	273		3.4
TOT PCT	45.8	16.3	25.1	12.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

	000	150	300	500	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	979	1999	3499	4999	6499	7999			
N	*	*	.1	.6	.6	.4	.3	.0	.2	*	10.3	
NE	*	.1	.2	.9	2.0	.7	.6	.1	.1	.2	25.7	
E	.0	*	.4	.3	1.0	.3	.3	.0	.0	.1	5.1	
SE	.0	*	.1	.7	.8	.3	.2	.0	.0	.1	2.1	
S	*	.1	*	1.0	1.7	.8	.4	.0	*	*	4.6	
SW	*	.0	.4	2.8	3.2	1.3	.3	.5	.	.	14.0	
W	*	.0	.2	.7	1.3	.4	.2	*	*	.0	6.8	
NW	*	.0	*	.2	.1	.2	*	.0	.0	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	.0	.0	.1	.1	.0	.0	.0	.0	1.0	
TOT OBS	7	8	3	155	234	98	50	14	8	9	1551	2167
TOT PCT	.3	.4	1.5	7.2	10.8	4.5	2.3	.6	.4	.4	71.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	.8	.8	.8	.8	.8	.8	.8
>5000	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>3500	2.9	3.7	3.8	3.8	3.8	3.8	3.8	3.8
>2000	6.5	8.1	8.3	8.3	8.3	8.3	8.3	8.3
>1000	14.7	18.7	19.4	19.4	19.4	19.4	19.4	19.4
>600	18.7	25.3	26.4	26.5	26.5	26.5	26.5	26.5
>300	19.1	26.4	27.8	27.9	28.0	28.0	28.0	28.0
>150	19.3	26.7	28.1	28.3	28.3	28.3	28.3	28.3
>0	19.5	27.0	28.4	28.6	28.6	28.6	28.7	28.7
TOTAL	431	596	627	631	632	632	633	633

TOTAL NUMBER OF OBS: 2209

PCT FREQ NH <5/8 71.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	30.6	11.4	11.3	10.2	7.4	5.5	7.1	6.0	10.2	.2	2204

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PERIOD: (PRIMARY) 1873-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1		
	NO PCP	.1	.1	.0	.0	*		.0	.0	.0	.0	.7		
	TOT %	.1	.1	.0	.0	*	*	*	.0	.0	.0	.8		
1/2<1	PCP	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0		
	NO PCP	.6	.4	.1	*	.1	.3	*	.2	.0	.0	1.7		
	TOT %	.6	.4	.1	*	.1	.3	*	.2	.0	.0	1.7		
1<2	PCP	.0	*	*	.0	.0	.0	*	.0	.0	.0	.1		
	NO PCP	.0	.3	.1	.0	.0	.1	.0	*	.0	.0	.6		
	TOT %	.0	.3	.2	.0	.0	.1	*	*	.0	.0	.7		
2<5	PCP	.0	*	.1	.1	.1	.3	.1	.0	.0	.0	.7		
	NO PCP	*	.1	.2	.0	*	.4	.2	*	.0	.1	1.1		
	TOT %	*	.1	.3	.1	.2	.7	.3	*	.0	.1	1.8		
5<10	PCP	.1	.2	.2	.2	.6	.9	.4	.1	.0	*	2.7		
	NO PCP	3.9	7.5	2.3	1.2	2.2	5.6	2.6	1.3	.0	.1	26.8		
	TOT %	4.0	7.7	2.6	1.4	2.8	6.5	3.0	1.4	.0	.2	29.5		
10+	PCP	*	.1	*	.1	.2	.4	.2	.0	.0	.0	1.1		
	NO PCP	8.2	19.6	4.8	2.7	5.8	14.5	6.4	2.1	.0	.9	65.0		
	TOT %	8.2	19.8	4.9	2.9	6.0	14.9	6.6	2.1	.0	.9	66.1		
TOT OBS														3026
TOT PCT														
		12.9	28.5	8.0	4.4	9.0	22.5	9.9	3.7	.0	1.1	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	*	*	.0	.0	*	*	.0	.0	.0	.0	.1	
	22+	.0	*	.0	.0	.0	*	*	.0	.0	.0	.2	
	TOT %	.1	.1	.0	.0	*	*	*	.0	.0	.0	.2	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	*	*	*	*	*	*	*	*	.0	.0	.2	
	11-21	.2	.1	.0	.0	.0	.1	.0	.1	.0	.0	.4	
	22+	.3	.2	*	.0	*	.2	.0	.1	.0	.0	.7	
	TOT %	.5	.4	.1	*	.1	.3	*	.2	.0	.0	1.5	
1<2	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	*	.0	.0	*	.0	*	.0	.0	.2	
	11-21	.0	.1	*	.0	.0	.1	*	.0	.0	.0	.2	
	22+	.0	*	.1	.0	.0	*	.0	.0	.0	.0	.1	
	TOT %	.0	.3	.1	.0	.0	.1	*	*	.0	.0	.6	
2<5	0-3	*	*	.0	.0	*	.0	.0	.0	.0	.1	.1	
	4-10	*	*	.1	*	*	.1	.1	*	.0	.0	.4	
	11-21	*	.2	.1	.1	*	.1	.1	*	.0	.0	.7	
	22+	.1	.1	.1	*	.2	.6	.2	.0	.0	.0	1.4	
	TOT %	.2	.4	.3	.1	.3	.8	.4	.1	.0	.1	2.6	
5<10	0-3	.1	.1	.1	*	.1	.1	.1	.1	.0	.2	.9	
	4-10	.7	1.4	.8	.6	.7	.9	.6	.6	.0	.0	6.4	
	11-21	1.5	2.5	1.0	.4	1.3	2.0	1.1	.3	.0	.0	10.2	
	22+	1.6	3.0	.3	.2	.7	3.3	1.0	.3	.0	.0	10.4	
	TOT %	3.9	7.0	2.3	1.3	2.7	6.3	2.9	1.3	.0	.2	27.9	
10+	0-3	.4	.6	.2	.2	.1	.3	.4	.2	.0	1.1	3.5	
	4-10	2.8	4.8	2.5	1.3	2.4	3.1	2.4	1.7	.0	.0	21.0	
	11-21	3.6	8.7	1.8	.9	2.5	6.2	2.7	.6	.0	.0	26.8	
	22+	1.8	5.0	.5	.2	1.0	5.4	1.8	.2	.0	.0	15.8	
	TOT %	8.5	19.0	5.0	2.6	5.9	15.0	7.3	2.7	.0	1.1	67.2	
TOT OBS													3621
TOT PCT													
		13.2	27.1	7.8	4.1	9.0	22.6	10.6	4.2	.0	1.4	100.0	

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PERIOD: (PRIMARY) 1873-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.2	1.5	7.6	12.5	3.7	2.4	.6	.4	.7	29.5	70.5	543
06009	.3	.3	1.3	7.7	11.4	5.8	2.8	.5	.5	.3	31.1	68.9	599
12015	.3	.5	1.2	5.9	11.1	4.8	2.6	.9	.3	.2	27.9	72.1	578
18021	.6	.4	1.9	6.6	8.4	3.4	1.3	.6	.2	.4	23.6	76.4	534
TOT	7	8	33	156	245	101	52	14	8	9	633	1621	2254
PCT	.3	.4	1.5	6.9	10.9	4.5	2.3	.6	.4	.4	28.1	71.9	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.6	.2	2.7	26.1	70.4	851
06009	.4	2.5	.8	2.3	26.9	65.1	1007
12015	.4	1.4	.6	2.4	26.3	69.0	806
18021	.2	1.3	.9	2.9	30.1	64.7	1036
TOT	9	54	24	95	1037	2481	3700
PCT	.2	1.5	.6	2.6	28.0	67.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.7	11.1	19.5	69.4	523
06009	.3	2.0	10.9	21.1	68.1	589
12015	.4	2.1	8.6	19.9	71.5	569
18021	.6	2.8	10.4	13.8	75.8	528
TOT	7	48	226	412	1571	2209
PCT	.3	2.2	10.2	18.7	71.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	*	.3	*	.3	.1	*	18	.8
70/74	.0	*	*	.9	1.1	4.8	5.3	1.7	326	14.0
65/69	.0	.1	.4	1.4	5.1	12.5	17.7	6.9	1031	44.2
60/64	.0	.2	.4	2.2	6.5	8.9	8.2	4.0	710	30.4
55/59	.0	.0	*	.7	2.5	3.0	2.3	1.2	226	9.7
50/54	.0	.0	.0	*	.3	.2	.3	.1	21	.9
45/49	.0	.0	.0	.0	.0	*	.0	.0	1	*
TOTAL	0	8	23	130	363	691	791	327	2333	100.0
PCT	.0	.3	1.0	5.6	15.6	29.6	33.9	14.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	*	.1	.2	.0	.1	.1	.2	.1	.0	*
70/74	2.8	7.5	.7	.2	.5	1.2	.4	.4	.0	.2
65/69	7.3	16.0	3.7	1.8	2.9	8.3	2.5	1.3	.0	.4
60/64	2.2	4.9	2.1	1.6	3.7	9.6	4.6	.9	.0	.6
55/59	.2	1.1	.4	.6	1.6	3.7	1.9	.3	.0	*
50/54	.0	*	.1	.1	.1	.2	.3	*	.0	.0
45/49	.0	.0	.0	.0	.0	.0	.0	*	.0	.0
TOTAL	12.5	29.7	7.2	4.5	8.9	23.1	9.8	3.1	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	72	70	65	57	54	47	64.4	1239
06009	80	74	72	66	57	54	49	65.5	2073
12015	79	76	74	67	59	56	48	66.9	1062
18021	81	73	71	66	58	54	48	65.2	1701
TOT	81	74	72	66	58	54	47	65.4	6075

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.8	13.7	26.3	40.2	15.9	79	604
06009	.0	6.8	14.9	31.6	32.1	14.6	77	632
12015	.0	11.1	20.1	32.3	27.6	9.0	74	558
18021	.0	6.0	13.4	27.8	35.3	17.4	79	597
TOT	0	164	369	705	811	342	78	2391

PERIOD: (PRIMARY) 1873-1973
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	48	49	53	57	61	65	69	73	77	81	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	*	*	.0	.0	2	.0	.1
9/10	.0	.0	.0	.0	*	.0	*	*	.0	.0	3	.0	.1
7/8	.0	.0	.0	.0	.1	.2	.2	.3	.1	.0	26	*	.9
6	.0	.0	.0	.0	*	.2	.1	*	.0	.0	12	.0	.4
5	.0	.0	.0	.0	*	.5	.5	.3	*	.0	37	.1	1.2
4	.0	.0	.0	.0	.2	.3	.9	.5	.1	.0	55	.1	1.9
3	.0	.0	.0	*	.2	.9	1.6	.4	.0	.0	89	.2	3.0
2	.0	.0	.0	.1	.6	2.3	3.1	.4	.0	.0	184	.4	6.1
1	.0	.0	.1	.2	.4	4.5	4.1	.2	*	*	270	.3	9.2
0	.0	.0	.1	.1	1.7	6.2	4.5	*	.0	.0	360	.5	12.2
-1	.0	.0	.1	.5	2.0	5.0	3.0	.2	.0	.0	309	.5	10.4
-2	.0	.0	.1	.4	2.9	5.7	1.2	.0	.0	.0	291	.2	10.0
-3	.0	.0	*	.6	3.3	4.3	.8	.0	.0	.0	258	.2	8.9
-4	.0	.0	.1	.7	4.2	3.5	.2	.0	.0	.0	247	.1	8.6
-5	.0	.0	.1	1.0	3.7	1.7	.1	*	.0	.0	189	.1	6.6
-6	.0	.0	.2	1.2	2.2	.7	*	.0	.0	.0	124	.0	4.4
-7/-8	.0	*	.7	2.3	3.3	.7	.1	.0	.0	.0	201	.1	7.0
-9/-10	.0	.1	.5	1.7	.8	*	.0	.0	.0	.0	89	*	3.1
-11/-13	.0	*	.7	1.3	.6	.0	.0	.0	.0	.0	76	*	2.6
-14/-16	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	11	.0	.4
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-20/-22	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	7	82	291	746	1049	584	68	6	1	2836	80	2756
PCT	.1	.2	2.9	10.3	26.3	37.0	20.6	2.4	.2	*	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.0	.8	.0	.0	.0	.0	.8
1-2	.2	1.6	.0	.0	.0	.0	2.4	.4	3.4	1.5	.0	.0	.0	5.3
3-4	.0	1.0	2.1	.3	.0	.0	3.3	.0	1.6	5.4	.4	.0	.0	7.4
5-6	.0	.3	1.5	1.0	.2	.0	3.0	.0	.4	4.1	2.2	.1	.0	6.9
7	.0	.1	.9	.7	.1	.0	1.9	.0	*	1.9	2.2	.3	.0	4.4
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.4	1.7	.1	.0	2.3
10-11	.0	.0	.2	.1	.2	*	.5	.0	.0	.2	1.4	.2	*	1.8
12	.0	.0	.0	.1	*	.0	.1	.0	.0	.0	.3	.2	.0	.5
13-16	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.6	.4	.0	1.0
17-19	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.2	.1	.0	.3
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.1	*	*	.2	.0	.0	.0	.0	.0	.1	.2
26-32	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.1	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.1	5.5	3.0	.8	.1	12.8	.4	6.2	13.5	9.2	1.5	.2	30.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.3	.0	.0	.0	.0	.3
1-2	.3	1.7	.2	.0	.0	.0	2.2	.1	1.0	.3	.0	.0	.0	1.4
3-4	.1	.7	.9	.1	.0	.0	1.8	.0	.5	.7	*	.0	.0	1.2
5-6	.0	.2	1.1	*	.0	.0	1.4	.0	.1	.3	.1	.0	.0	.5
7	.0	*	.4	.2	.1	.0	.6	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.2	.2	.1	.0	.5	.0	.0	.0	*	*	.0	*
10-11	.0	.0	.0	.1	*	.0	.2	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0
17-19	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.9	2.9	.7	.3	.0	7.1	.1	1.9	1.5	.2	.3	.0	4.0

PERIOD: (OVER-ALL) 1963-1973

AUGUST

AREA 0021 EAST LONDON
32.65 29.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.2	*	.0	.0	.0		.4	.3	.4	*	.0	.0	.0		.7
1-2	.0	1.5	1.1	.0	.0	.0		1.6	.0	1.8	.7	.0	.0	.0		2.4
3-4	*	1.3	1.0	.1	.0	.0		2.5	.1	1.1	2.8	.4	.0	.0		4.3
5-6	.0	.3	1.5	.2	*	.0		2.1	.0	.3	2.9	1.2	*	.0		4.4
7	.0	.0	.5	.5	.0	.0		1.0	.0	.1	1.4	1.4	*	.0		3.2
8-9	.0	.0	.2	.1	.0	.0		.3	.0	.0	.9	1.8	.1	.0		2.8
10-11	.0	.0	.1	.2	.1	.0		.5	.0	.0	.2	.7	.4	.0		1.2
12	.0	.0	.1	.0	.0	.0		.1	.0	.0	*	.3	.6	.0		.9
13-16	.0	.0	*	.2	.0	.0		.2	.0	.0	.1	.6	.6	.1		1.5
17-19	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.2	.3	.0		.5
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.1	.2	.0		.4
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.6	.0		.7
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	*	.0	.0		*
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	3.3	3.7	1.3	.2	.0		8.7	.4	3.6	9.1	6.9	2.9	.1		23.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.3	.0	.0	.0	.0		.5	.1	.1	.0	.0	.0	.0		.2	
1-2	.1	1.5	.5	.0	.0	.0		2.1	.1	1.0	.1	.0	.0	.0		1.2	
3-4	.1	1.2	1.1	.0	.0	.0		2.4	.0	.2	.2	.0	.0	.0		.4	
5-6	.0	.1	1.3	.2	.1	.0		1.6	.0	*	.2	.0	.0	.0		.3	
7	.0	.0	.4	.2	.1	*		.8	.0	.0	.1	.1	.0	.0		.2	
8-9	.0	.0	.4	.6	.0	.0		1.0	.0	.0	.0	.0	.0	.0		*	
10-11	.0	.0	.0	.3	.2	.0		.5	.0	.0	.0	.1	.0	.0		.1	
12	.0	.0	.0	.1	.1	.0		.2	.0	.0	.0	.1	.0	.0		.1	
13-16	.0	.0	.1	.2	.2	.0		.5	.0	.0	.0	*	*	.0		*	
17-19	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.1	.0		.1	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	*	.0	.0		*	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	3.0	3.7	1.8	.7	*		9.7	.1	1.4	.6	.3	.1	.0		2.4	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.2	2.6	.1	.0	.0	.0	4.9	
1-2	1.5	13.4	4.0	.0	.0	.0	18.8	
3-4	.3	7.6	14.0	1.3	.0	.0	23.3	
5-6	.0	1.9	12.7	4.9	.4	.0	19.9	
7	.0	.3	5.7	5.4	.8	.1	12.1	
8-9	.0	.0	2.2	4.8	.4	.0	7.4	
10-11	.0	.0	.8	2.9	1.0	.1	4.7	
12	.0	.0	.1	.9	1.0	.0	2.0	
13-16	.0	.0	.3	1.8	1.3	.1	3.5	
17-19	.0	.1	.0	.5	.8	.0	1.3	
20-22	.0	.0	.1	.1	.3	.0	.5	
23-25	.0	.0	.1	.3	.6	.1	1.3	
26-32	.0	.0	.0	.1	.1	.1	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.0	25.8	39.9	23.0	6.8	.4	100.0	1565

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	2.6	5.0	4.1	2.4	2.4	1.0	.4	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	356	5
6-7	.0	.2	1.8	4.6	5.6	3.5	3.7	1.8	2.5	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	465	8
8-9	.0	.1	.3	3.2	3.5	5.0	3.1	2.0	4.2	1.6	.7	.6	.3	.1	.0	.0	.0	.0	.0	461	11
10-11	.0	.2	.3	.6	1.2	1.5	1.7	.9	2.4	.6	.7	.2	.2	.0	.0	.0	.0	.0	.0	193	11
12-13	.0	.0	.7	.3	.6	.9	.4	.9	1.7	.1	.4	.1	.3	.0	.0	.0	.0	.0	.0	118	11
>13	.0	.0	.0	.1	.4	.4	.4	.2	.9	.2	.5	.3	.4	.0	.0	.0	.0	.0	.0	71	15
INDEX	.9	.5	1.0	2.3	2.4	1.0	.7	.5	1.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	198	7
TOTAL	22	65	169	280	300	274	207	122	253	66	51	28	24	1	0	0	0	0	0	1862	9
PCT	1.2	3.5	9.1	15.0	16.1	14.7	11.1	6.6	13.6	3.5	2.7	1.5	1.3	.1	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1854-1973AREA 0021 EAST LONDON
32.65 29.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST BLWG SNOW	SPRAY BLWG SNOW	NO SIG WEA
N	1.0	1.0	1.4	.0	.0	.0	.0	3.5	1.0	4.1	2.4	.0	1.8	.4	.4	86.7
NE	2.0	.3	1.3	.0	.0	.0	.0	3.6	1.8	1.8	2.7	.0	3.2	*	*	86.8
E	4.4	1.6	3.9	.0	.0	.0	.0	9.2	4.6	1.3	.3	.0	1.2	.0	.0	83.4
SE	5.3	3.1	1.7	.0	.0	.0	.0	9.8	5.7	.3	.0	.0	.5	.0	.0	83.9
S	6.2	4.9	2.5	.0	.0	.0	.0	13.2	3.9	2.8	1.7	.0	1.0	.5	.5	78.9
SW	4.9	3.2	2.9	.0	.0	.0	.0	10.9	3.2	2.1	.8	.1	1.1	.2	.2	82.4
W	3.0	5.9	2.5	.0	.0	.0	.4	11.4	4.7	1.4	.8	.0	1.3	.0	.0	80.7
NW	1.3	.7	.3	.0	.0	.0	.0	2.3	.3	1.3	5.7	.0	1.3	.0	.0	90.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	85.7
TOT PCT	3.9	2.7	2.4	.0	.0	.0	*	8.7	3.2	2.0	1.5	*	1.6	.2	.2	83.4
TOT OBS:	2657															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST BLWG SNOW	SPRAY DUST SNOW	NO SIG WEA
0000	5.1	3.0	2.9	.0	.0	.0	.0	10.9	5.1	3.0	.8	.2	1.3	.0	.0	79.7
0600	2.2	3.6	2.0	.0	.0	.0	.1	7.7	3.2	1.1	1.8	.0	1.9	.3	.3	84.3
1200	3.3	1.7	1.8	.0	.0	.0	.0	6.6	2.6	.8	1.4	.0	2.1	.0	.0	86.8
1800	5.0	2.1	3.0	.0	.0	.0	.0	9.7	2.1	3.1	1.7	.0	1.0	.3	.3	83.0
TOT PCT	3.8	2.6	2.4	.0	.0	.0	*	8.7	3.2	2.0	1.4	*	1.6	.1	.1	83.5
TOT OBS:	2731															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	2.4	3.3	2.3	.6	*		9.0	17.0		7.3	11.2	10.2	11.4	5.7	9.0	7.2	8.1
NE	.5	4.7	8.6	5.4	1.4	.2		20.7	18.3		19.5	19.7	19.0	18.7	20.1	22.3	23.3	23.5
E	.5	4.1	4.3	1.7	.5	.1		11.1	14.8		7.2	10.0	8.7	11.1	14.0	13.9	12.9	11.4
SE	.5	3.6	2.6	.7	.1	.1		7.5	12.4		6.1	7.3	6.2	7.2	8.0	9.2	8.5	7.3
S	.6	4.7	4.2	1.7	1.0	.2		12.4	15.5		14.0	10.9	11.4	11.7	13.7	14.0	13.5	11.2
SW	.8	5.0	9.0	5.8	2.6	.6		23.4	19.8		26.7	22.0	24.2	21.1	29.5	20.4	24.5	20.3
W	.3	2.9	4.1	2.3	.8	.3		10.8	18.3		13.4	12.0	13.8	11.8	7.4	7.7	7.4	12.3
NW	.3	1.8	1.2	.5	.1	*		3.9	12.9		4.4	5.8	5.0	5.4	.8	3.0	1.9	4.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		1.4	1.2	1.4	1.7	.8	.6	.8	1.7
TOT OBS	277	1695	2167	1186	411	81	5817		16.9		485	681	995	955	519	525	1055	602
TOT PCT	4.8	29.1	37.3	20.4	7.1	1.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	1.4	3.1	3.0	1.4	.1		9.0	17.0	9.5	10.8	7.3	7.5	
NE	2.0	7.3	7.6	3.1	.6		20.7	18.3	19.6	18.9	21.2	23.4	
E	2.0	4.9	3.1	.9	.2		11.1	14.8	8.8	9.9	13.9	12.4	
SE	1.8	3.7	1.6	.3	.1		7.5	12.4	6.8	6.7	8.6	8.1	
S	2.4	5.4	2.9	1.1	.6		12.4	15.5	12.2	11.5	13.3	12.7	
SW	2.0	8.4	7.8	3.9	1.4		23.4	19.8	24.0	22.7	25.0	23.0	
W	1.3	4.3	3.0	1.5	.6		10.8	18.3	12.6	12.8	7.5	9.2	
NW	1.2	1.6	.8	.3	.1		3.9	12.9	5.2	5.2	1.9	2.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.2						1.2	.0	1.3	1.5	.7	1.1	
TOT OBS	885	2256	1733	725	218	5817		16.9	1166	1950	1044	1657	
TOT PCT	15.2	38.8	29.8	12.5	3.7		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

SEPTEMBER

AREA 0021 EAST LONDON
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.3	4.4	31.8	34.1	20.1	6.5	1.8	16.7	100.0	1166
0600	1.5	3.5	28.1	37.6	20.7	7.5	.9	16.9	100.0	1950
1200	.7	2.4	28.3	39.8	21.2	6.8	1.0	17.0	100.0	1044
1800	1.1	3.7	29.0	37.4	19.7	7.1	1.9	17.1	100.0	1657
TOT	70	207	1845	2167	1186	411	81	16.9		5817
PCT	1.2	3.6	29.1	37.3	20.4	7.1	1.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	2.7	1.1	1.3	1.5		4.0
NE	9.3	2.8	4.7	3.6		3.6
E	2.7	1.8	3.4	3.0		4.9
SE	1.3	1.4	1.8	2.3		5.2
S	2.9	1.9	3.5	4.2		5.2
SW	8.3	5.1	8.2	6.6		4.5
W	4.1	1.4	3.2	2.0		4.1
NW	1.0	.3	.5	.5		3.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	.3	.2		3.1
TOT OBS	640	314	519	465	1938	4.4
TOT PCT	33.0	16.2	26.8	24.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	OBS
.1				.8	.7	.4		.0		.1			4.3
.1	.0	.1	.5	1.2	2.4	1.1	.6	.2	.1	.3			13.8
.0	.0	.1	1.2	1.8	1.5	.2		.1	.1	.1			5.7
.1	.0	.2	.5	1.5	.7			.1	.1	.1			3.5
.1	*	.4	1.6	3.1	1.0	.2		.2	.1	.1			5.6
.1	.1	.7	2.9	5.2	1.9	.7		.1	.1	.2			16.4
.1	.0	.4	.7	1.9	.8	.1		.1	.1	.2			6.4
.0	.0	*	.2	.3	.2	.0		.0	.0	*			1.6
.0	.0	.0	.0	.0	.0	.0		.0	.0	.0			.0
.0	.0	.1	.0	.2	.1	.0		.0	.0	.1			1.0
.7	3	49	175	337	149	38		15	13	20			1132
.4	.2	2.5	9.0	17.4	7.7	2.0		.8	.7	1.0			58.4
													100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	1.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>4000	1.7	2.4	2.5	2.5	2.5	2.5	2.5	2.5
>3500	3.1	4.3	4.4	4.4	4.4	4.4	4.4	4.4
>2000	9.3	11.8	12.2	12.2	12.2	12.2	12.2	12.2
>1000	20.9	27.7	29.1	29.1	29.1	29.1	29.1	29.1
>600	26.7	36.1	38.0	38.0	38.1	38.1	38.1	38.1
>300	28.0	38.3	40.3	40.5	40.6	40.6	40.6	40.6
>150	28.0	38.5	40.5	40.7	40.7	40.7	40.7	40.7
>0	28.1	38.6	40.8	41.0	41.1	41.1	41.1	41.1
TOTAL	559	769	812	817	818	818	818	818

TOTAL NUMBER OF OBS: 1991

PCT FREQ NH <5/8 58.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	10	TOTAL
18.3	11.8	10.9	8.9	8.3	6.3	7.4	8.9	19.0	.2	2102	

SEPTEMBER

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973AREA 0021 EAST LONDON
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	.0	*	*	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	*	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.1	.4	.0	.0	.2	.3	*	.2	.0	.0	1.2	
	TOT %	.1	.4	*	.0	.2	.5	*	.2	.0	.0	1.3	
1<2	PCP	*	*	*	*	*	.0	.1	.0	.0	*	.3	
	NO PCP	*	.1	*	.0	*	.0	.0	*	.0	.0	.2	
	TOT %	.1	.1	.1	*	.1	.0	.1	*	.0	*	.5	
2<5	PCP	.0	.1	.2	*	.2	.4	.3	.0	.0	*	1.2	
	NO PCP	.2	.4	.2	.1	.2	.4	.2	*	.0	.0	1.8	
	TOT %	.2	.5	.4	.1	.4	.9	.4	*	.0	*	3.0	
5<10	PCP	.2	.3	.5	.4	1.1	2.0	.5	.1	.0	.0	5.1	
	NO PCP	2.1	5.0	2.2	1.4	2.8	6.3	2.2	.8	.0	.2	23.0	
	TOT %	2.3	5.3	2.7	1.8	3.8	8.3	2.7	.9	.0	.2	28.0	
10+	PCP	.0	.3	.2	.2	.4	.4	.3	.0	.0	.0	1.8	
	NO PCP	4.6	13.6	7.0	4.9	8.1	17.8	6.9	1.7	.0	.8	65.3	
	TOT %	4.6	13.9	7.2	5.0	8.5	18.2	7.2	1.7	.0	.8	67.1	
TOT OBS		2651											
TOT PCT		7.3	20.2	10.3	7.1	13.0	27.8	10.4	2.8	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	*	*	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	.1	*	*	.0	.0	.2	
	11-21	.1	.1	*	*	.1	*	.0	.1	.0	.0	.5	
	22+	*	.2	.0	.0	*	.2	.0	.0	.0	.0	.4	
	TOT %	.1	.3	*	*	.1	.4	*	.1	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	11-21	.0	*	.1	*	.0	*	*	*	.0	.0	.2	
	22+	*	*	*	.0	*	*	.2	.0	.0	.0	.3	
	TOT %	*	.1	.1	*	.1	.1	.2	*	.0	*	.6	
2<5	0-3	*	.0	*	.0	.0	*	*	.0	.0	*	.2	
	4-10	.1	.1	.1	.1	.1	.1	.1	*	.0	.0	.8	
	11-21	.1	.4	.3	.1	.2	.4	.1	*	.0	.0	1.5	
	22+	*	.2	.1	*	.1	.5	.4	*	.0	.0	1.3	
	TOT %	.2	.7	.5	.2	.4	1.0	.6	.1	.0	*	3.8	
5<10	0-3	.1	.1	.1	*	.2	*	*	*	.0	.2	.7	
	4-10	.4	1.5	.9	1.0	1.1	1.3	.7	.4	.0	.0	7.3	
	11-21	.7	2.2	1.1	.7	1.0	2.9	1.4	.3	.0	.0	10.2	
	22+	.9	1.5	.5	.1	1.3	3.8	.8	.2	.0	.0	9.1	
	TOT %	2.1	5.3	2.5	1.8	3.6	8.0	2.9	.9	.0	.2	27.3	
10+	0-3	.3	.3	.4	.2	.2	.4	.1	.1	.0	.7	2.9	
	4-10	1.8	3.6	3.4	3.1	3.8	3.6	2.3	1.1	.0	.0	22.7	
	11-21	1.8	6.2	2.9	1.4	2.9	7.2	3.2	.4	.0	.0	25.9	
	22+	1.0	4.0	.7	.1	1.2	6.5	2.0	.2	.0	.0	15.6	
	TOT %	4.8	14.1	7.4	4.8	8.1	17.7	7.6	2.0	.0	.7	67.0	
TOT OBS		3252											
TOT PCT		7.3	20.5	10.5	6.8	12.2	27.2	11.4	3.1	.0	1.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1973-1973
(OVER-ALL) 1855-1973AREA 0021 EAST LONDON
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.6	.2	2.5	10.6	17.3	7.5	1.3	1.3	.4	1.0	42.8	57.2	479
06009	.4	.0	2.8	8.7	20.2	6.8	1.9	.9	1.5	.9	44.2	55.8	529
12015	.0	.2	2.7	7.7	13.0	7.5	3.5	.5	.0	.5	35.6	64.4	548
18021	.4	.2	1.6	8.0	16.4	8.6	.8	.2	.8	1.4	38.5	61.5	488
TOT	7	3	50	178	341	155	39	15	14	20	822	1222	2044
PCT	.3	.1	2.4	8.7	16.7	7.6	1.9	.7	.7	1.0	40.2	59.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.7	.4	2.8	25.2	70.5	745
06009	.1	1.3	.9	3.7	29.2	64.9	902
12015	.0	.8	.9	4.5	25.4	68.4	756
18021	.0	1.5	.3	3.9	28.9	65.3	923
TOT	4	37	21	124	910	2230	3326
PCT	.1	1.1	.6	3.7	27.4	67.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.6	3.6	15.4	28.8	55.9	469
06009	.4	3.3	13.9	31.7	54.4	518
12015	.0	3.4	13.7	23.3	63.0	533
18021	.4	2.3	13.0	27.4	59.7	471
TOT	7	63	278	552	1161	1991
PCT	.4	3.2	14.0	27.7	58.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.0	.0	.0	.0	.0	.0	1	*
75/79	.0	.0	.1	.2	.3	*	.0	.0	15	.7
70/74	.0	.0	.5	1.9	2.8	4.5	1.4	243	11.3	
65/69	.0	.0	1.8	8.3	14.6	14.1	8.2	1017	47.1	
60/64	.0	.0	2.1	6.3	8.6	9.1	4.6	663	30.7	
55/59	.0	.0	.2	.8	1.9	2.5	2.8	1.1	202	9.4
50/54	.0	.0	.0	.1	.2	.2	.1	17	.8	
45/49	.0	.0	.0	.0	.1	.0	.0	2	.1	
TOTAL	0	2	13	111	408	627	666	333	2160	100.0
PCT	.0	.1	.6	5.1	18.9	29.0	30.8	15.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	*
.1	.1	.1	.0	.1	.2	*	*	.0	.0
1.6	4.9	.9	.4	.8	2.0	.4	.1	.0	*
3.1	11.3	6.3	2.7	4.8	12.9	4.1	1.2	.0	.6
1.2	3.6	3.3	3.4	4.1	9.6	4.7	.4	.0	.4
.4	.1	.3	.8	2.5	2.9	1.7	.5	.0	.1
.0	.0	.0	.1	.2	.3	.2	*	.0	.0
.0	.0	.0	*	*	.0	.0	.0	.0	.0
6.4	20.1	10.8	7.3	12.6	28.0	11.2	2.3	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	72	70	65	57	54	51	64.3	1153
06009	80	75	72	66	58	54	51	65.8	1904
12015	80	77	73	67	60	57	49	66.7	1015
18021	77	72	71	66	59	55	49	65.2	1581
TOT	80	74	72	66	58	55	49	65.5	5653

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.2	17.7	26.3	33.6	19.2	79	532
06009	.0	6.2	17.9	30.0	31.0	14.8	77	580
12015	.0	9.5	24.0	32.2	25.1	9.1	74	549
18021	.0	4.1	14.2	27.0	34.5	18.1	79	562
TOT	0	128	421	643	691	340	77	2223

SEPTEMBER

PERIOD: (PRIMARY) 1873-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49	53	57	61	65	69	73	77	TOT	N	W	WQ
	52	56	60	64	68	72	76	80		FOG		FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*	
11/13	.0	.0	.0	.0	.0	.0	*	.1	3	.0	.1	
9/10	.0	.0	.0	.1	*	.1	.2	*	11	*		
7/8	.0	.0	.0	.0	.1	.2	.0	.0	9	.0	.4	
6	.0	.0	.0	.0	.1	.1	*	.0	7	.0	.3	
5	.0	.0	.0	*	.4	.5	.3	.1	33	.0	1.3	
4	.0	.0	.0	.2	1.0	.8	.2	.1	57	.1	2.2	
3	.0	.0	.0	.3	1.1	1.1	.3	*	69	.1	2.7	
2	.0	*	.0	.7	2.7	2.1	.4	.0	151	.2	5.8	
1	.0	.0	.2	.8	3.5	2.3	.3	.0	177	.2	6.9	
0	.0	.0	.4	2.2	5.0	3.9	.2	.0	292	.3	11.4	
-1	.0	.0	.2	2.5	5.3	2.5	*	.0	262	.2	10.3	
-2	.0	*	.4	2.7	5.9	1.7	.0	.0	269	.1	10.7	
-3	.0	.0	.6	2.7	6.8	1.1	.0	.0	275	.1	11.0	
-4	.0	.1	1.0	3.3	4.4	.4	.0	.0	228	.0	9.2	
-5	.0	*	1.1	4.7	2.4	.2	.0	.0	210	.1	8.4	
-6	.0	*	.9	2.1	1.2	.0	.0	.0	106	.0	4.3	
-7/-8	*	.3	2.0	3.3	.6	*	.0	.0	156	.0	6.3	
-9/-10	*	.6	2.3	1.1	.1	*	.0	.0	101	*	6.0	
-11/-13	.1	.4	1.6	.2	.1	.0	.0	.0	40	.0	2.4	
-14/-16	.0	.1	.3	.0	.0	.0	.0	.0	9	.0	.4	
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1	
TOTAL	3		272		1015		50		2488	36	2452	
PCT	.1	1.7	10.9	26.9	40.8	17.2	2.0	.4	100.0	1.4	98.6	

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.3	.2	.2	.1	.0	.0	.0	.5
1-2	.1	1.2	.2	.0	.0	.0	1.4	.0	2.4	1.5	.0	.0	.0	3.8
3-4	.0	.6	.9	.1	.0	.0	1.6	.1	1.2	2.9	.6	.0	.0	4.8
5-6	.0	.1	.6	.3	.0	.0	.9	.1	.1	3.0	1.3	.1	.0	4.5
7	.0	.1	.4	.5	.1	.0	1.1	.0	.2	1.3	1.3	.2	.0	2.8
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.3	1.1	.1	.0	1.5
10-11	.0	.0	.1	.2	.3	.0	.5	.0	.0	*	.6	.3	.1	1.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.6
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.3	.1	.1	.7
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	2.6	1.3	.6	.0	6.8	.4	4.0	9.2	5.6	1.0	.3	20.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6	.1	.4	.0	.0	.0	.0	.5
1-2	.1	2.4	.5	.0	.0	.0	2.9	.1	2.0	.4	.0	.0	.0	2.5
3-4	.1	1.0	1.9	.4	.0	.0	3.3	.0	1.2	.9	*	.0	.0	2.1
5-6	.0	.3	2.2	.2	.0	.0	2.7	.0	.2	.4	.1	.0	.0	.7
7	.0	.0	.8	.1	.0	.0	.9	.0	.0	.3	*	.0	.0	.3
8-9	.0	.0	.5	.1	.0	.0	.5	.0	.0	*	.0	.0	.0	*
10-11	.0	.1	.1	.1	.1	.0	.3	.0	.0	.1	.0	*	.0	.1
12	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	5.9	1.0	.3	.0	11.6	.1	3.9	2.1	.1	*	.0	6.3

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0021 EAST LONDON
32.65 29.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.4	.0	.0	.0	.0	.4	.4	.1	.2	.0	.0	.0	.0	.0	.3	
1-2	.2	2.3	.5	.0	.0	.0	3.0	.7	.7	2.5	1.0	.0	.0	.0	.0	3.7	
3-4	.0	1.8	1.0	.3	.0	.0	3.1	.0	.0	2.1	3.4	.5	.0	.0	.0	6.0	
5-6	.0	.2	1.9	.3	.0	.0	2.4	.0	.0	.6	3.4	1.4	.0	.0	.0	5.4	
7	.0	.0	.7	.6	.1	.0	1.3	.0	.0	.0	2.1	2.2	.4	.0	.0	4.7	
8-9	.0	.1	.4	.3	.2	.0	1.0	.0	.0	.1	.6	.8	.6	.0	.0	2.1	
10-11	.0	.0	.0	.1	.1	.0	.2	.0	.0	.3	1.0	.7	.7	.0	.0	2.1	
12	.0	.1	.0	.1	.1	.0	.2	.0	.0	.0	.0	.7	.1	.0	.0	.8	
13-16	.0	.0	.0	.1	.1	.0	.3	.0	.0	.1	.6	.8	.1	.0	.0	1.6	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.1	.0	.4	.0	.0	.0	.6	
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.3	.2	.0	.0	.0	.5	
23-25	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	.2	.0	.0	.0	.3	
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.9	4.5	1.7	1.1	.1	12.5		.3	5.4	11.0	7.6	3.7	.1		28.1	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.3	.0	.0	.0	.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.1	
1-2	.1	1.1	.6	.0	.0	.0	1.8	.0	.0	.8	.1	.0	.0	.0	.0	.9	
3-4	.1	1.0	2.4	.2	.0	.0	3.7	.0	.0	.4	.1	.0	.0	.0	.0	.4	
5-6	.0	.1	1.4	.5	.1	.0	2.0	.0	.0	.0	.3	.1	.0	.0	.0	.4	
7	.0	.1	.6	.3	.0	.0	.9	.0	.0	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.4	.5	.2	.0	1.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.2	.2	.0	.3	.0	.0	.1	.1	.1	.0	.0	.0	.1	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.6	5.4	1.9	.5	.1	10.8		.1	1.2	.5	.5	.0	.0	.0	2.3	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.9	2.1	.1	.0	.0	.0	5.1	
1-2	.7	14.5	4.8	.0	.0	.0	20.0	
3-4	.2	9.2	13.4	1.9	.0	.0	24.8	
5-6	.1	1.6	13.0	4.1	.1	.0	18.9	
7	.0	.3	6.1	5.0	.8	.0	12.1	
8-9	.0	.1	2.5	3.0	1.1	.0	6.8	
10-11	.0	.1	.7	2.3	1.5	.1	4.7	
12	.0	.1	.0	1.4	.3	.0	1.8	
13-16	.0	.0	.2	1.4	1.0	.3	2.9	
17-19	.0	.0	.0	.1	.9	.1	1.1	
20-22	.0	.0	.0	.3	.6	.0	.9	
23-25	.0	.0	.1	.1	.5	.1	.7	
26-32	.0	.0	.0	.0	.2	.1	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	28.1	40.9	19.4	7.1	.6	100.0	1492

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	2.7	5.0	4.8	2.5	1.7	.8	.5	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	331	5
6-7	.0	.5	1.6	5.5	6.3	5.0	3.7	1.5	1.9	.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	469	8
8-9	.0	.3	1.2	2.0	3.2	3.6	3.9	2.0	3.1	1.3	.6	.3	.2	.0	.0	.0	.0	.0	.0	375	10
10-11	.0	.1	.0	1.4	2.0	1.9	2.0	.9	1.5	.8	.7	.2	.3	.1	.0	.0	.0	.0	.0	208	11
12-13	.0	.0	.3	.6	.6	.9	.8	.8	.7	.1	.3	.2	.2	.1	.0	.0	.0	.0	.0	100	11
14	.0	.0	.0	.5	.4	.2	.7	.4	.6	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	58	11
INDEX	.7	.6	1.1	2.0	1.8	1.7	1.3	.6	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	193	7
TOTAL	15	73	198	293	292	260	229	115	163	59	38	21	13	5	0	0	0	0	0	1734	8
PCT	.9	4.2	9.1	16.9	16.8	15.0	13.2	6.6	9.4	3.4	2.2	1.2	.7	.3	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1871-1973
(OVER-ALL) 1854-1973

OCTOBER

AREA 0021 EAST LONDON
32.95 29.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	5.1	.0	2.6	.0	.0	.0	.4	8.1	.0	3.6	6.4	.6	2.9	.6	79.7	
NE	2.1	.8	2.3	.0	.0	.0	*	5.3	1.9	2.9	3.5	.1	3.8	.3	82.6	
E	5.6	2.1	3.4	.0	.0	.0	.0	10.9	3.4	3.2	1.6	.0	2.0	.3	79.2	
SE	4.1	2.7	5.8	.0	.0	.0	.0	12.6	4.8	1.0	1.5	.0	.1	.0	80.0	
S	5.6	4.8	2.2	.0	.0	.0	.0	12.7	2.9	1.4	1.1	.0	.8	.2	81.2	
SW	4.5	3.7	2.7	.0	.0	.0	.0	10.9	5.5	2.2	1.2	.3	1.3	*	79.1	
W	4.7	3.6	1.5	.0	.0	.0	.0	9.8	4.3	2.0	4.1	.0	1.2	.4	78.6	
NW	1.9	3.8	1.9	.0	.0	.0	.0	7.6	.0	6.2	1.0	.0	.5	.0	85.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.7	11.5	.0	3.8	.0	73.1	
TOT PCT	4.1	2.6	2.7	.0	.0	.0	*	9.4	3.3	2.5	2.5	.1	2.0	.2	80.5	
TOT OBS:	2850															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	4.6	2.8	3.6	.0	.0	.0	.0	10.9	4.3	4.1	1.8	.1	1.1	.3		78.0
06009	4.0	2.9	2.9	.0	.0	.0	.0	9.8	3.4	.8	2.7	.1	1.9	.3		81.3
12015	2.5	1.9	2.7	.0	.0	.0	.0	7.2	1.9	.1	2.4	.1	2.4	.1		85.8
18021	5.0	2.6	2.2	.0	.0	.0	.1	9.9	3.5	5.1	3.2	.1	2.4	.1		76.4
TOT PCT	4.1	2.6	2.8	.0	.0	.0	*	9.5	3.3	2.5	2.5	.1	2.0	.2		80.3
TOT OBS:	2918															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	1.7	2.6	1.9	.5	*		7.0	17.6		5.6	7.5	8.3	8.0	6.0	5.8	5.9	7.5
NE	.6	4.3	9.2	5.5	1.8	.2		21.5	18.8		27.8	19.8	22.1	20.0	25.8	19.6	21.4	18.8
E	.5	3.9	5.4	2.4	.5	*		12.7	15.5		10.1	11.3	9.7	11.7	12.2	16.4	15.3	15.1
SE	.4	4.4	3.5	1.0	.2	*		9.6	13.0		8.3	8.0	7.9	9.5	9.1	11.9	11.0	11.3
S	.7	4.5	5.4	2.4	.7	.1		13.7	15.4		12.4	13.2	12.4	14.2	15.2	14.9	14.9	12.5
SW	.4	4.1	7.7	5.4	2.5	.4		20.5	20.4		21.6	19.4	21.1	20.5	22.5	20.7	19.6	19.3
W	.4	2.6	3.2	2.3	1.4	.5		10.5	20.6		10.9	14.3	13.9	10.7	7.5	6.4	7.8	10.2
NW	.2	1.3	1.0	.5	.2	*		3.2	15.0		2.0	4.6	3.8	4.4	.7	3.1	2.5	3.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		1.2	1.9	.8	1.0	.9	1.1	1.7	2.1
TOT OBS	334	1820	2583	1455	528	88	6808		17.4		580	892	1180	1076	533	628	1249	730
TOT PCT	4.9	26.7	37.9	21.4	7.8	1.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	
	03	09	15	21									
N	.9	2.3	2.5	1.1	.2		7.0	17.6	6.7	8.2	5.9	6.5	
NE	1.8	7.4	8.5	3.2	.6		21.5	18.8	23.1	21.1	22.5	20.4	
E	2.0	5.0	4.3	1.2	.2		12.7	15.5	10.8	10.7	14.5	15.2	
SE	1.8	5.1	2.1	.5	.1		9.6	13.0	8.1	8.7	10.6	11.1	
S	2.2	6.0	3.8	1.4	.3		13.7	15.4	12.9	13.2	15.0	14.0	
SW	1.7	6.7	6.7	3.9	1.4		20.5	20.4	20.3	20.8	21.5	19.5	
W	1.4	3.3	3.0	1.7	1.1		10.5	20.6	12.9	12.3	6.9	8.7	
NW	.7	1.3	.7	.3	.1		3.2	15.0	3.5	4.1	2.0	2.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.4						1.4	.0	1.6	.9	1.0	1.8	
TOT OBS	951	2533	2155	896	273	6808		17.4	1412	2256	1161	1979	
TOT PCT	14.0	37.2	31.7	13.2	4.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1871-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
00003	1.6	3.6	29.3	38.8	18.8	6.8	1.0	16.6	1412
06009	.9	4.3	25.7	37.5	21.9	8.3	1.5	17.7	2256
12015	1.0	2.4	24.6	39.8	22.5	8.5	1.1	18.1	1161
18021	1.8	3.4	27.3	36.7	22.0	7.4	1.4	17.3	1979
TOT	.92	242	1820	2583	1455	528	88	17.4	6808
PCT	1.4	3.6	26.7	37.9	21.4	7.8	1.3	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.7	1.8	2.1		5.2
NE	7.6	4.2	7.5	8.2		4.8
E	2.3	1.8	2.8	3.7		5.2
SE	1.4	.9	2.6	4.0		5.9
S	2.3	2.2	4.4	4.3		5.4
SW	4.6	4.8	6.0	6.1		5.0
W	2.1	1.9	2.9	2.7		5.0
NW	.3	.1	.6	.5		5.5
VAR	.0	.0	.0	.0		.0
CALM	.1	.0	.4	.2		5.4
TOT OBS	469	351	612	673	2105	5.1
TOT PCT	22.3	16.7	29.1	32.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.1	.0	.1	1.1	1.0	.5	.3	.2	*	*	.1	3.0	
.1	.0	.6	2.7	5.9	2.2	.7	.3	.3	.5	14.1		
.0	.0	.3	1.0	2.3	1.0	.2	.1	*	.0	5.6		
*	.1	.3	1.4	1.7	1.3	.3	.1	.0	*	3.6		
.3	.0	.2	1.7	2.9	1.5	.4	.1	*	*	6.0		
.1	.1	.5	2.5	3.7	1.6	.9	.2	.1	*	11.8		
.1	.0	.2	.9	2.2	.9	.2	*	*	*	4.9		
.0	.0	.0	.2	.4	.2	.1	.0	.0	.0	.6		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	*	.2	.2	*	.0	.0	.0	.0	.3		
15	5	49	246	427	194	64	25	12	17	1051		
.7	.2	2.3	11.7	20.3	9.2	3.0	1.2	.6	.8	49.9	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.3	1.4	1.4	1.4	1.4	1.4	1.4
>5000	1.6	2.3	2.5	2.6	2.6	2.6	2.6	2.6
>3500	3.6	4.9	5.5	5.6	5.6	5.6	5.6	5.6
>2000	9.7	13.5	14.8	14.9	14.9	14.9	14.9	14.9
>1000	23.2	32.6	35.0	35.2	35.2	35.2	35.2	35.2
>600	29.5	43.7	46.8	47.0	47.0	47.0	47.0	47.0
>300	30.2	45.8	49.2	49.3	49.3	49.3	49.3	49.3
>150	30.3	46.0	49.4	49.6	49.6	49.6	49.6	49.6
>0	30.5	46.5	50.0	50.1	50.2	50.3	50.3	50.3
TOTAL	655	998	1072	1076	1078	1079	1079	1079

TOTAL NUMBER OF OBS: 2146

PCT FREQ NH <5/8 49.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.2	10.6	10.7	9.3	8.5	6.4	8.5	10.4	25.3	.3	2272

PERIOD: (PRIMARY) 1871-1973
(OVER-ALL) 1854-1973

OCTOBER

AREA 0021 EAST LONDON
32.55 29.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	TOT %	.0	.0	*	.0	.0	.0	*	.0	.0	*	.1	
1/2<1	PCP	.0	*	.1	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	.3	.5	.2	.1	.1	.0	*	.0	.0	.0	1.3	
	TOT %	.3	.5	.2	.1	.1	*	*	.0	.0	.0	1.4	
1<2	PCP	.0	.1	.1	*	.1	.1	.1	.0	.0	.0	.4	
	NO PCP	.1	.3	.1	.0	.0	.0	*	*	.0	.0	.5	
	TOT %	.1	.3	.2	*	.1	.1	.1	*	.0	.0	.8	
2<5	PCP	.1	.2	.2	.3	.2	.4	.2	.0	.0	.0	1.6	
	NO PCP	.2	.7	.2	.1	.3	.6	.3	*	.0	*	2.5	
	TOT %	.3	.8	.4	.5	.5	1.0	.5	*	.0	*	4.1	
5<10	PCP	.4	.7	.6	.5	1.1	1.1	.6	.1	.0	.0	5.0	
	NO PCP	2.2	7.2	2.8	2.0	2.8	6.1	2.3	.5	.0	.2	25.9	
	TOT %	2.5	7.9	3.3	2.5	3.9	7.2	2.8	.6	.0	.2	31.0	
10+	PCP	*	.4	.2	.3	.3	.8	.1	*	.0	.0	2.2	
	NO PCP	3.1	15.8	6.8	5.7	8.8	12.5	5.9	1.2	.0	.7	60.4	
	TOT %	3.1	16.2	7.0	6.0	9.1	13.3	6.0	1.2	.0	.7	62.6	
TOT OBS													2845
TOT PCT		6.4	25.8	11.2	9.1	13.7	21.6	9.4	1.8	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	TOT %	.0	.0	*	.0	.0	.0	*	.0	.0	.1	.1	
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.1	.1	.1	*	.0	.0	.0	.0	.0	.3	
	11-21	.1	.1	.1	.0	*	.1	*	.0	.0	.0	.4	
	22+	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.5	
	TOT %	.3	.4	.2	.1	.1	.1	*	.0	.0	.0	1.2	
1<2	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	*	.1	*	.0	.0	.0	*	.0	.0	.0	.1	
	11-21	*	.1	*	*	.1	*	*	.0	.0	.0	.4	
	22+	.0	.1	.1	.0	*	.1	.1	.0	.0	.0	.4	
	TOT %	*	.3	.2	*	.1	.2	.1	*	.0	.0	1.0	
2<5	0-3	*	*	.0	.0	.0	*	.0	.1	.0	*	.1	
	4-10	.1	.2	.1	.2	.2	.2	.2	*	.0	.0	1.2	
	11-21	.1	.2	.3	.1	.2	.3	.2	*	.0	.0	1.4	
	22+	.1	.5	.1	.2	.2	.5	.1	*	.0	.0	1.7	
	TOT %	.3	.9	.4	.5	.6	1.1	.5	.1	.0	*	4.5	
5<10	0-3	.2	.2	.2	.1	.1	.1	.1	*	.0	.3	1.2	
	4-10	.7	1.4	1.0	.9	.9	1.6	.9	.3	.0	.0	7.6	
	11-21	.8	2.8	1.4	1.0	1.6	3.0	1.2	.3	.0	.0	12.1	
	22+	.8	2.7	.3	.3	.9	2.7	.9	.1	.0	.0	8.7	
	TOT %	2.4	7.1	2.9	2.3	3.5	7.4	3.0	.6	.0	.3	29.5	
10+	0-3	.2	.5	.3	.1	.5	.3	.3	.1	.0	.9	3.1	
	4-10	1.0	3.2	2.9	3.9	4.0	2.9	1.4	.8	.0	.0	20.1	
	11-21	1.2	7.6	3.3	2.0	3.7	6.1	2.4	.5	.0	.0	26.9	
	22+	.7	4.0	.8	.1	1.0	4.7	2.2	*	.0	.0	13.6	
	TOT %	3.1	14.3	7.3	6.2	9.2	14.0	6.3	1.4	.0	.9	63.7	
TOT OBS													3549
TOT PCT		6.2	24.0	11.0	9.2	13.5	22.8	10.0	2.2	.0	1.2	100.0	

OCTOBER

PERIOD: (PRIMARY) 1871-1973
(OVER-ALL) 1854-1973AREA 0021 EAST LONDON
32.55 29.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.3	.7	1.8	12.8	22.2	8.5	2.2	1.4	.4	.7	52.1	47.9	553
06009	.2	.2	3.4	12.4	21.6	10.3	2.6	1.0	.3	.5	52.6	47.4	580
12015	.2	.0	1.4	9.7	14.7	7.9	3.4	1.1	1.1	1.4	40.9	59.1	557
18021	1.2	.0	2.4	11.4	21.0	9.4	3.7	1.0	.4	.8	51.3	48.7	509
TOT	15	5	50	255	437	199	65	25	12	19	1082	1117	2199
PCT	.7	.2	2.3	11.6	19.9	9.0	3.0	1.1	.5	.9	49.2	50.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.6	1.2	4.0	25.4	68.6	853
06009	.1	1.5	1.0	4.4	31.9	61.1	986
12015	.0	.9	.8	5.4	26.3	66.6	776
18021	.1	1.6	1.1	4.6	33.2	59.4	1002
TOT	4	43	37	165	1069	2299	3617
PCT	.1	1.2	1.0	4.6	29.6	63.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL OBS
00003	1.3	3.9	19.8	34.4	45.8	541
06009	.2	3.9	20.3	34.0	45.7	567
12015	.2	1.7	16.4	27.1	56.5	543
18021	1.2	3.6	17.4	35.2	47.5	495
TOT	15	70	397	700	1049	2146
PCT	.7	3.3	18.5	32.6	48.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	*	.1	.0	.0	3	.1
75/79	.0	.0	.0	.1	.3	.4	.4	*	29	1.3
70/74	.0	.0	.1	.5	1.6	5.6	8.7	4.6	479	21.1
65/69	.0	.0	.1	1.7	9.0	13.0	16.6	11.8	1183	52.2
60/64	.0	.0	.2	1.5	4.4	6.2	5.7	4.2	503	22.2
55/59	.0	.0	.0	.2	.7	.8	.7	.5	65	2.9
50/54	.0	.0	.0	.0	*	*	.0	*	3	.1
TOTAL	0	0	10	91	364	594	726	480	2265	100.0
PCT	.0	.0	.4	4.0	16.1	26.2	32.1	21.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	*	.0	.0	*	.0	.0	.0	.0
.1	.6	.1	.0	.2	.2	*	.1	.0	.0
2.5	9.4	2.5	.7	1.6	2.9	1.0	.2	.0	.3
3.1	14.7	5.3	4.6	7.2	11.5	4.6	.8	.0	.5
.4	2.3	2.7	3.1	3.5	6.4	3.3	.3	.0	.2
.1	.2	.2	.2	.5	1.0	.6	.1	.0	.0
.0	.0	*	.0	.0	*	*	.0	.0	*
6.2	27.3	10.8	8.5	13.0	22.1	9.5	1.5	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	74	72	66	59	57	50	65.7	1405
06009	79	76	74	67	60	57	50	67.4	2220
12015	82	78	74	68	62	59	57	68.4	1156
18021	80	75	73	67	60	57	49	66.6	1960
TOT	82	76	73	67	60	57	49	67.0	6741

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.1	12.9	25.4	34.0	25.5	81	611
06009	.0	5.1	18.5	26.6	29.3	23.5	79	605
12015	.0	7.9	19.8	27.9	31.1	13.3	76	541
18021	.0	3.0	16.1	24.6	34.0	22.3	80	570
TOT	0	104	372	607	747	497	79	2327

OCTOBER

PERIOD: (PRIMARY) 1871-1973
(OVER-ALL) 1854-1973

TABLE 17

AREA 0021 EAST LONDON
32.55 29.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WQ FOG
17/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.0	.0	3	.0	.1
9/10	.0	.0	.0	.0	.1	.1	.1	.1	.0	11	.0	.4
7/8	.0	.0	.0	.1	.1	.7	.3	.3	.1	40	.0	1.4
6	.0	.0	.0	*	.1	.3	.3	.0	.0	19	.0	.7
5	.0	.0	.0	*	.9	.6	.7	*	.0	59	.1	2.1
4	.0	.0	.0	.1	1.1	1.4	.9	.0	.0	94	.1	3.4
3	.0	.0	.0	.2	1.4	1.5	.7	*	.0	103	.2	3.6
2	.0	.0	.0	.6	2.0	3.1	.7	.0	.0	172	.4	5.8
1	.0	.0	.0	1.4	3.0	4.9	.5	.0	.0	240	.4	8.5
0	.0	.0	*	1.6	5.4	5.4	.4	.0	.0	347	.4	12.5
-1	.0	.0	.1	1.5	6.6	3.5	.2	.0	.0	320	.2	11.7
-2	.0	.0	.2	2.5	6.1	2.7	.1	.0	.0	312	.1	11.5
-3	.0	.0	.4	2.3	5.4	1.3	.1	.0	.0	256	.2	9.3
-4	.0	.0	.3	2.6	3.9	.8	.0	.0	.0	204	.1	7.5
-5	.0	*	.4	2.6	2.8	.5	*	.0	.0	173	.1	6.3
-6	.0	*	.3	2.4	1.2	*	.0	.0	.0	105	.1	3.8
-7/-8	.0	.0	.9	3.3	1.2	*	.0	.0	.0	147	.0	5.4
-9/-10	.0	*	.5	1.3	.2	.0	.0	.0	.0	54	.0	2.0
-11/-13	.0	.0	.4	.4	.0	.0	.0	.0	.0	23	.0	.9
-14/-16	.0	.0	.2	.0	.0	.0	.0	.0	.0	7	.0	.3
TOTAL	1	5	104	589	725	138	13	2	2692	100.0	2.6	97.4
PCT	*	.2	3.9	21.9	41.4	26.9	5.1	.5	.1			

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.2	.3	.0	.0	.0	.0	.5
1-2	.0	.6	.1	.0	.0	.0	.7	.4	2.2	.8	.0	.0	.0	3.5
3-4	.0	.8	.8	.3	.0	.0	1.8	.0	1.9	5.2	.5	.0	.0	7.6
5-6	.0	.0	1.1	.3	.1	.0	1.5	.0	.5	4.4	1.2	.3	.0	6.3
7	.0	.0	.3	.2	.0	.0	.5	.0	.1	2.2	2.0	.2	.0	4.5
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.0	.7	1.2	.3	.0	2.2
10-11	.0	.0	.1	.4	.0	.0	.5	.0	.0	.4	1.1	.0	.0	1.5
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.5	.1	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.6	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.4
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.6	2.6	1.5	.2	.0	6.0	.6	5.0	13.8	7.0	2.1	.1	28.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4	.1	.4	.0	.0	.0	.0	.5
1-2	.2	2.3	.7	.0	.0	.0	3.3	.1	3.0	.4	.0	.0	.0	3.5
3-4	.0	1.1	1.7	.3	.0	.0	3.1	.0	1.4	1.0	.0	.0	.0	2.4
5-6	.0	.4	1.6	.3	.0	.0	2.2	.0	.2	.7	.2	.0	.0	1.2
7	.0	.1	1.0	.4	.0	.0	1.5	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.2	5.4	1.3	.2	.0	11.3	.2	5.0	2.4	.2	.0	.0	7.8

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0021 EAST LONDON
32.55 29.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.3
1-2	.2	3.1	.6	.0	.0	.0	3.9	.*	1.8	.6	.0	.0	.0	2.4
3-4	.1	1.6	1.9	.0	.0	.0	3.6	.0	1.0	3.2	.2	.0	.0	4.4
5-6	.0	.3	1.8	.3	.0	.0	2.3	.0	.5	2.3	.7	.1	.0	3.6
7	.0	.2	.8	.6	.*	.0	1.6	.0	.*	1.4	1.3	.4	.0	3.1
8-9	.0	.0	.3	.2	.1	.0	.5	.1	.1	.5	.9	.4	.0	1.9
10-11	.0	.0	.1	.2	.*	.0	.3	.0	.0	.3	1.1	.2	.0	1.6
12	.0	.0	.0	.*	.*	.0	.1	.0	.0	.1	.5	.3	.*	.9
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.6	.6	.1	1.2
17-19	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.3	.5	.1	.8
20-22	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.1	.2	.0	.3
23-25	.0	.0	.0	.*	.0	.0	.*	.0	.0	.0	.1	.1	.0	.3
26-32	.0	.0	.0	.*	.0	.0	.*	.0	.0	.0	.1	.*	.*	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.4	5.5	1.7	.3	.0	13.5	.2	3.6	8.4	5.8	7.8	.2	21.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.*	.4	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0	.1	
1-2	.1	1.0	.1	.0	.0	.0	1.2	.0	.2	.1	.0	.0	.0	.3	
3-4	.0	.9	1.0	.2	.0	.0	2.1	.0	.3	.3	.*	.0	.0	.6	
5-6	.0	.1	.8	.7	.0	.0	1.6	.0	.0	.1	.0	.0	.0	.1	
7	.0	.1	.4	.1	.1	.0	.7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.*	.2	.3	.*	.0	.6	.0	.0	.0	.0	.0	.0	.0	
10-11	.1	.1	.3	.6	.1	.1	1.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.*	.2	.1	.1	.5	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.*	.2	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.6	2.8	2.6	1.0	.6	9.8	.1	.5	.6	.*	.0	.0	1.3	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TJT DBS
<1	2.3	2.0	.0	.0	.0	.0	4.3	
1-2	1.5	14.4	3.4	.0	.0	.0	19.3	
3-4	.1	9.0	15.0	1.5	.0	.0	25.6	
5-6	.1	2.1	12.4	3.5	.4	.0	18.5	
7	.0	.5	6.2	4.5	.7	.0	11.9	
8-9	.1	.1	2.1	3.0	.7	.0	6.0	
10-11	.1	.1	1.3	3.5	.4	.1	5.3	
12	.0	.0	.2	1.4	.7	.1	2.4	
13-16	.0	.0	.1	1.4	1.6	.4	3.5	
17-19	.0	.0	.1	.3	1.0	.1	1.4	
20-22	.0	.0	.1	.2	.5	.1	.9	
23-25	.0	.0	.0	.2	.3	.0	.5	
26-32	.0	.0	.0	.1	.2	.1	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	28.1	40.8	19.7	6.5	.8	100.0	1608

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.2	3.0	4.9	5.2	3.8	2.0	1.6	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	40.1	5
6-7	.0	.2	2.4	5.1	7.2	4.3	3.5	1.6	1.4	.9	.4	.3	.2	.1	.0	.0	.0	.0	.0	51.1	8
8-9	.1	.3	.9	2.8	5.2	4.3	3.8	2.1	1.8	.6	.4	.4	.1	.1	.0	.0	.0	.0	.0	42.1	9
10-11	.0	.2	.1	.6	1.5	1.4	2.1	1.4	2.1	.6	.2	.2	.4	.1	.0	.0	.0	.0	.0	19.9	11
12-13	.0	.0	.3	.5	.3	.4	.4	.2	1.5	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	8.1	12
>13	.0	.0	.0	.0	.3	.2	.2	.2	.6	.3	.5	.0	.4	.1	.0	.0	.0	.0	.0	5.1	16
INDET	.5	.5	.8	1.2	2.1	1.0	1.8	.2	1.4	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	186	8
TOTAL	14	77	170	284	378	253	249	111	171	52	39	20	28	4	0	0	0	0	0	1850	9
PCT	.8	4.2	9.2	15.4	20.4	13.7	13.5	6.0	9.2	2.8	2.1	1.1	1.5	.2	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1855-1973AREA 0021 EAST LONDON
32.55 29.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.1	1.6	1.4	.0	.0	.0	.0	5.2	1.5	2.3	5.2	.0	.3	.0	86.3
NE	1.9	1.6	1.2	.0	.0	.0	.2	4.8	.9	1.1	2.7	.2	3.3	.0	87.6
E	4.6	3.8	3.2	.0	.0	.0	.2	11.5	1.8	3.2	2.7	.0	2.4	.0	80.2
SE	5.6	6.9	4.4	.0	.0	.0	.0	16.9	2.7	2.1	1.7	.0	.9	.0	76.6
S	5.6	3.5	3.7	.0	.0	.0	.0	12.8	4.3	.9	2.4	.0	.6	.2	79.4
SW	5.0	4.2	2.6	.0	.0	.0	.0	11.6	5.7	1.3	2.1	.1	1.9	.4	77.1
W	2.5	3.9	1.1	.0	.0	.0	.0	7.5	2.7	1.7	1.0	.0	1.1	.0	86.2
NW	6.0	3.0	.8	.0	.0	.0	.0	9.8	.0	3.8	7.2	.0	4.5	.0	76.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.1	2.6	.0	.0	.0	89.7
TOT PCT	4.0	3.5	2.5	.0	.0	.0	.1	9.9	3.0	1.7	2.6	.1	1.8	.1	81.5
TOT OBS:	3009														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.5	3.0	3.0	.0	.0	.0	.1	10.7	3.4	2.6	1.8	.0	1.4	.3	80.4
0500	3.8	3.9	2.1	.0	.0	.0	.1	9.8	3.1	.5	3.4	.0	1.8	.0	81.9
1200	1.9	2.9	2.3	.0	.0	.0	.0	7.1	3.8	.3	2.7	.1	2.7	.3	85.1
1800	5.7	4.1	2.2	.0	.0	.0	.0	11.8	3.1	3.8	2.8	.1	1.6	.0	78.3
TOT PCT	4.0	3.5	2.4	.0	.0	.0	.1	9.9	2.9	1.8	2.7	.1	1.9	.1	81.4
TOT OBS:	3110														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	2.1	2.6	1.7	.4	*		7.2	16.3		7.2	6.5	7.9	7.4	6.6	8.3	6.5	7.1
NE	.7	5.1	8.5	4.6	.8	*		19.7	18.6		20.5	19.1	21.8	17.4	22.9	17.1	20.3	18.6
E	.8	5.4	5.7	2.1	.3	.1		14.5	13.8		15.0	14.5	11.8	14.0	13.9	17.4	15.8	14.3
SE	.6	4.5	3.4	1.2	.3	*		10.1	13.0		6.3	9.5	9.0	9.3	10.4	12.1	11.8	11.3
S	.6	5.6	5.3	2.4	.4	.1		14.2	14.3		13.3	12.6	12.5	13.4	16.7	15.4	16.6	13.5
SW	.8	5.6	7.5	5.2	1.8	.4		21.0	18.4		24.8	20.2	22.1	22.1	22.4	20.7	19.3	17.7
W	.4	2.9	3.2	1.7	.6	.3		9.0	17.0		9.3	11.1	10.3	10.3	4.3	6.8	6.3	11.9
NW	.3	1.1	.8	.4	.1	.1		2.9	14.1		2.0	3.7	3.1	3.8	2.0	1.7	2.0	3.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		1.6	2.8	1.6	2.3	.9	.4	1.0	1.8
TOT OBS	450	2403	2782	1451	354	74	7514		15.6		564	978	1303	1192	570	717	1351	839
TOT PCT	6.0	32.0	37.0	19.3	4.7	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.2	2.7	2.2	.9	.1			7.2	16.3		6.7	7.6	7.6	6.7
NE	2.5	7.4	7.3	2.2	.2			19.7	18.6		19.6	19.7	19.6	19.8
E	2.9	7.0	3.5	.9	.2			14.5	13.8		14.7	12.9	15.9	15.3
SE	2.5	4.9	1.8	.7	.1			10.1	13.0		8.3	9.1	11.4	11.6
S	2.9	6.3	3.7	1.2	.2			14.2	14.3		12.9	12.9	16.0	15.4
SW	2.6	7.8	6.4	3.1	1.0			21.0	18.4		21.9	22.1	21.4	18.7
W	1.5	3.6	2.4	1.0	.5			9.0	17.0		10.5	10.3	5.7	8.5
NW	.8	1.1	.6	.3	.1			2.9	14.1		3.1	3.4	1.8	2.7
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.6							1.6	.0		2.3	1.9	.6	1.3
TOT OBS	1386	3061	2099	782	186	7514			15.6		1542	2495	1287	2190
TOT PCT	18.4	40.7	27.9	10.4	2.5			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1855-1973

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AREA 0021 EAST LONDON
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	2.3	4.8	35.0	35.7	17.1	3.9	1.2	14.9	100.0	1542
06609	1.9	5.1	29.9	35.3	20.8	5.9	1.1	16.0	100.0	2495
12615	.6	3.4	30.9	38.9	20.8	4.7	.7	16.0	100.0	1287
18621	1.3	3.8	32.9	38.9	18.3	4.0	.9	15.3	100.0	2190
TOT	121	329	2403	2792	1491	354	74	15.6		7514
PCT	1.6	4.4	32.0	37.0	19.3	4.7	1.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	2.4	.7	2.0	1.5	4.4	4.4
NE	8.0	3.9	5.5	4.9	4.1	4.1
E	3.3	1.8	3.9	4.8	5.2	5.2
SE	.9	1.5	2.9	3.9	6.0	6.0
S	2.3	2.8	4.7	5.8	5.6	5.6
SW	4.3	3.1	6.4	8.9	5.6	5.6
W	1.9	1.1	2.1	1.9	4.9	4.9
NW	.7	.3	.3	.4	4.0	4.0
VAR	.0	.0	.0	.0	.0	.0
CALM	.5	.2	.3	.2	3.6	3.6
TOT OBS	522	328	600	693	2143	5.1
TOT PCT	24.4	15.3	28.0	32.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.4	.7	2.0	1.5	4.4	4.4	.0	.0	.2	.8	1.0	.8	*	.1	.0	*	3.6	
NE	8.0	3.9	5.5	4.9	4.1	4.1	.2	.1	.7	2.4	2.8	1.3	.4	.2	.1	.2	13.9	
E	3.3	1.8	3.9	4.8	5.2	5.2	.2	*	.3	1.7	2.6	1.3	.5	.2	.1	.2	6.6	
SE	.9	1.5	2.9	3.9	6.0	6.0	*	.0	.3	1.3	2.4	1.5	*	.1	.1	.1	3.4	
S	2.3	2.8	4.7	5.8	5.6	5.6	*	*	.6	2.2	3.6	1.7	.2	.1	.1	.0	6.9	
SW	4.3	3.1	6.4	8.9	5.6	5.6	.3	.2	.8	3.7	5.1	1.9	.7	.1	*	.2	9.6	
W	1.9	1.1	2.1	1.9	4.9	4.9	.1	.1	.2	.7	1.3	.3	.2	.0	.0	.0	1.0	
NW	.7	.3	.3	.4	4.0	4.0	.0	.0	*	.1	.3	.2	*	*	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.2	.3	.2	3.6	3.6	.0	.0	.0	.1	*	.2	.0	.0	.0	.0	.9	
TOT OBS	522	328	600	693	2143	5.1	17	8	66	280	415	198	47	19	8	18	1067	2143
TOT PCT	24.4	15.3	28.0	32.3	100.0		.8	.4	3.1	13.1	19.4	9.2	2.2	.9	.4	.8	49.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.5	2.0	2.1	2.2	2.2	2.2	2.2	2.2
= OR >3500	3.1	4.1	4.3	4.4	4.4	4.4	4.4	4.4
= OR >2000	9.8	13.0	13.6	13.7	13.7	13.7	13.7	13.7
= OR >1000	22.3	31.3	32.7	32.8	32.9	32.9	32.9	32.9
= OR >600	28.9	42.8	45.4	45.6	45.8	45.9	45.9	45.9
= OR >300	30.1	45.3	48.4	48.7	48.9	49.0	49.0	49.0
= OR >150	30.2	45.6	48.8	49.1	49.3	49.3	49.3	49.3
= OR >0	30.4	46.0	49.4	49.8	50.1	50.1	50.1	50.1
TOTAL	670	1013	1089	1097	1104	1105	1105	1105

TOTAL NUMBER OF OBS: 2204

PCT FREQ NH <5/8: 49.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
10.2	11.9	11.5	8.1	8.0	5.8	9.0	8.8	26.1	.5	2371

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1858-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.1	.0	.0	.0	*	.0	.0	.0	.1	
	NO PCP	*	*	.0	.0	*	*	.0	.0	.0	*	.2	
	TOT %	*	.1	.1	.0	*	*	.0	.0	.0	*	.3	
1/2<1	PCP	*	.1	.1	.1	.1	.1	*	.0	.0	.0	.6	
	NO PCP	.2	.3	.2	.1	.2	.2	.1	.1	.0	.0	1.4	
	TOT %	.3	.3	.3	.2	.2	.3	.2	.2	.0	.0	2.0	
1<2	PCP	.0	.0	.1	.0	.1	.1	*	.0	.0	.0	.4	
	NO PCP	.0	*	.1	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.0	*	.2	.0	.2	.2	*	.0	.0	.0	.6	
2<5	PCP	*	.2	.3	.2	.3	.3	*	.0	.0	.0	1.4	
	NO PCP	.1	.7	.3	.1	.3	.4	.2	*	.0	.0	2.3	
	TOT %	.2	.9	.7	.4	.5	.8	.2	*	.0	*	3.7	
5<10	PCP	.2	.6	.7	.9	1.2	1.5	.3	.2	.0	.0	5.6	
	NO PCP	1.8	5.7	3.4	1.8	3.2	6.8	2.2	.9	.0	.3	26.0	
	TOT %	2.0	6.3	4.1	2.8	4.4	8.3	2.5	1.0	.0	.3	31.6	
10+	PCP	*	.2	.2	.3	.3	.6	.1	.0	.0	.0	1.8	
	NO PCP	4.0	13.7	8.1	5.6	9.8	12.5	4.3	1.0	.0	1.0	60.0	
	TOT %	4.0	13.9	8.4	5.9	10.1	13.1	4.4	1.0	.0	1.0	61.8	
TOT OBS													
TOT PCT													
3000													
		6.6	21.5	13.7	9.3	15.5	22.6	7.4	2.2	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	.0	.0	.0	.0	*	*	.0	.0	.0		*	
	11-21	.0	*	*	.0	.0	.0	.0	.0	.0		.1	
	22+	*	.0	.0	.0	.0	.0	*	.0	.0		.1	
	TOT %	.1	*	*	.0	*	*	*	.0	.0	*	.2	
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.1	.1	.1	.0	*	.1	*	.1	.0		.6	
	11-21	.1	.1	.1	.1	.1	.1	.1	*	.0		.6	
	22+	*	.1	.1	.1	.1	.1	.1	*	.0		.5	
	TOT %	.2	.3	.3	.2	.2	.3	.1	.1	.0	.0	1.7	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	*	.1	.0	.1	.1	*	.0	.0		.3	
	11-21	.0	*	.1	*	.1	.0	.0	.0	.0		.2	
	22+	.0	.1	.1	.0	*	.1	*	.0	.0		.4	
	TOT %	.0	.2	.2	*	.2	.2	.1	.0	.0	.0	.9	
2<5	0-3	*	.0	*	.0	.1	*	*	.0	.0	.1	.2	
	4-10	.1	.5	.2	.2	.1	.3	.1	*	.0		1.5	
	11-21	*	.3	.4	.2	.2	.5	.2	*	.0		2.0	
	22+	*	.4	.2	*	.3	.3	.1	*	.0		1.4	
	TOT %	.2	1.3	.8	.5	.7	1.2	.4	.1	.0	.1	5.1	
5<10	0-3	*	.2	.2	.0	.1	.2	.1	.1	.0	.4	1.3	
	4-10	.5	1.7	1.7	1.0	1.5	1.9	.9	.4	.0		9.6	
	11-21	.9	2.8	1.6	1.2	1.6	2.8	1.0	.3	.0		12.1	
	22+	.4	1.4	.7	.4	.8	2.7	.5	.1	.0		6.9	
	TOT %	1.8	5.9	4.1	2.6	4.0	7.6	2.6	1.0	.0	.4	29.9	
10+	0-3	.2	.4	.3	.4	.2	.2	.2	.1	.0	1.1	3.1	
	4-10	1.4	3.9	4.0	3.2	3.7	4.0	2.1	.6	.0		22.7	
	11-21	1.4	6.4	3.7	2.0	3.9	5.9	2.0	.2	.0		25.5	
	22+	.8	3.4	.8	.2	1.3	3.5	.8	*	.0		10.8	
	TOT %	3.8	14.0	8.8	5.8	9.1	13.5	5.1	1.0	.0	1.1	62.1	
TOT OBS													
TOT PCT													
3700													
		6.0	21.7	14.4	9.0	14.1	22.8	8.3	2.2	.0	1.5	100.0	

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.9	.4	3.1	14.6	20.5	7.9	2.2	.6	.2	.9	51.3	48.7	542
06009	.5	.3	3.1	11.9	19.3	9.4	1.6	1.0	.3	.7	48.1	51.9	615
12015	.5	.2	2.2	10.2	16.8	8.3	2.7	.8	.2	1.0	42.8	57.2	600
18021	1.3	.6	3.6	13.6	18.0	10.2	2.1	.9	.8	1.1	52.2	47.8	529
TOT	18	8	68	285	426	205	49	19	8	21	1107	1179	2286
PCT	.8	.3	3.0	12.5	18.6	9.0	2.1	.8	.3	.9	48.4	51.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.3	1.3	.6	3.6	28.5	65.8	873
06009	.2	1.9	1.1	5.4	29.8	61.6	1036
12015	.5	1.2	.8	5.8	25.6	66.0	827
18021	.3	2.4	.8	5.3	35.2	55.9	1064
TOT	12	67	32	191	1145	2353	3800
PCT	.3	1.8	.8	5.0	30.1	61.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.9	4.9	21.6	31.1	47.2	527
06009	.5	4.1	19.0	31.5	49.5	590
12015	.5	3.3	15.6	28.9	55.5	582
18021	1.4	5.9	22.0	33.9	44.2	505
TOT	18	99	428	689	1087	2204
PCT	.8	4.5	19.4	31.3	49.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
88/89	.0	.0	.0	.0	*	.0	.0	.0	1	*
80/84	.0	*	.0	.1	.1	.3	.1	.0	15	.6
75/79	.0	*	.0	.1	.8	1.7	1.7	.4	113	4.8
70/74	.0	.0	.2	.8	3.6	10.3	12.7	10.2	890	37.8
65/69	.0	.0	.1	2.2	7.7	9.6	12.0	8.8	951	40.4
60/64	.0	.0	.4	1.1	3.4	3.2	3.4	2.8	338	14.4
55/59	.0	.0	.0	.2	.2	.4	.6	.6	44	1.9
50/54	.0	.0	.0	.0	.0	.0	*	.0	1	*
TOTAL	0	2	16	107	372	602	720	534	2353	100.0
PCT	.0	.1	.7	4.5	15.8	25.6	30.6	22.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	.0	.0	.0	.0
.1	.2	.2	*	.0	.2	.0	.0	.0	.0
.3	1.9	1.0	.2	.5	.6	.1	.1	.0	.1
4.1	11.4	6.5	2.8	3.4	6.2	2.0	.9	.0	.6
1.8	7.0	4.9	3.8	7.1	11.0	3.7	.6	.0	.4
.2	.8	1.8	2.2	3.4	3.5	1.8	.4	.0	.3
.1	.1	*	.2	.8	.4	.2	.0	.0	.0
.0	.0	.0	.0	.0	*	.0	.0	.0	.0
6.6	21.4	14.3	9.3	15.2	22.0	7.9	2.0	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	75	73	68	61	58	52	67.4	1509
06009	84	78	76	69	63	59	53	69.3	2406
12015	86	80	77	70	63	60	55	70.1	1248
18021	84	76	74	69	62	59	52	68.4	2121
TOT	86	78	75	69	62	59	52	68.8	7284

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.9	11.6	22.0	33.4	28.1	81	613
06009	.0	5.3	14.6	25.0	32.1	22.0	79	627
12015	.0	7.7	20.9	31.6	25.7	14.1	76	588
18021	.0	3.6	14.1	22.9	31.6	26.8	81	611
TOT	0	130	184	618	750	557	79	2439

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49	53	57	61	65	69	73	77	81	85	TOT	W FOG	WD FOG
	52	56	60	64	68	72	76	80	84	88			
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.1	.1	*	*	*	7	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.2	.1	.1	.0	19	*	.6
7/8	.0	.0	.0	.1	*	.3	.2	.2	.1	.0	28	.0	1.0
6	.0	.0	.0	*	.2	.2	.2	.2	.0	.0	24	.1	.8
5	.0	.0	.0	.2	.5	.7	.8	.1	.1	.0	70	*	2.4
4	.0	.0	.0	.2	.6	1.1	1.1	.4	.0	.0	100	.2	3.3
3	.0	.0	*	.2	1.0	1.8	1.9	.3	.0	.0	154	.2	5.1
2	.0	.1	*	.6	1.1	3.0	2.2	.3	.0	.0	214	.4	6.9
1	.0	.0	*	.4	1.7	5.0	2.1	.1	.0	.0	273	.4	9.0
0	.0	.1	.1	.6	3.1	6.3	2.5	*	.0	.0	368	.7	12.0
-1	.0	.0	.0	.7	3.5	5.5	1.4	.0	.0	.0	322	.1	11.0
-2	.0	*	.1	.8	4.1	4.7	.8	.0	.0	.0	304	.1	10.4
-3	.0	*	.1	.9	3.4	3.7	.3	.0	.0	.0	242	.1	8.3
-4	.0	*	.2	1.3	3.1	2.1	.2	.0	.0	.0	198	.1	6.7
-5	.0	*	.2	1.6	3.1	1.2	.1	.0	.0	.0	180	.1	6.2
-6	.0	*	.3	1.1	2.1	.7	.1	.0	.0	.0	124	.0	4.3
-7/-8	.0	.1	.4	1.9	2.1	.1	.0	.0	.0	.0	135	*	4.6
-9/-10	.0	.0	.3	1.2	.8	.0	.0	.0	.0	.0	67	*	2.3
-11/-13	.0	*	.5	1.1	.2	.0	.0	.0	.0	.0	54	.0	1.9
-14/-16	.0	*	.0	.2	*	.0	.0	.0	.0	.0	9	.0	.3
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	15	69	380	1061	412	55	11	1	2894	77	2817	
PCT	*	.5	2.4	13.1	30.7	36.7	14.2	1.9	.4	*	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
1-3	.1	.5	.0	.0	.0	.0	.6	.1	.5	.0	.0	.0	.0	.6
4-10	*	1.2	.4	.0	.0	.0	1.7	.3	3.0	1.1	.0	.0	.0	4.4
11-21	.0	.7	.8	.3	.0	.0	1.8	.0	2.0	3.6	.6	.0	.0	6.2
22-33	.0	.2	1.0	.2	.0	.0	1.4	.0	.4	3.1	1.8	.0	.0	5.2
34-47	.0	.0	.3	.4	.0	.0	.7	.0	.1	1.6	.9	.2	.0	2.8
48+	.0	.2	.1	.1	.0	.0	.4	.0	.0	.3	.8	.0	.0	1.2
TOT PCT	.0	.0	*	*	.0	.0	.1	.0	.0	.1	.7	.1	.0	.9
1-3	.0	.0	.0	.1	*	.0	.1	.0	.0	.0	.2	.1	.0	.2
4-10	.0	.0	.0	.2	.0	.0	.2	.0	.0	*	.5	.1	.0	.6
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	2.7	1.3	*	.0	7.1	.4	6.0	9.8	5.5	.5	.0	22.1

WGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
1-3	.3	.8	.0	.0	.0	.0	1.1	.4	.4	.0	.0	.0	.0	.8
4-10	.2	3.0	1.8	.0	.0	.0	5.0	.1	2.9	.8	.0	.0	.0	3.8
11-21	.0	1.1	2.2	.2	.0	.0	3.5	.0	.9	1.2	.0	.0	.0	2.0
22-33	.1	.5	1.1	.3	.0	.0	1.9	.0	.4	.9	.1	.0	.0	1.4
34-47	.0	*	.7	.3	.1	.0	1.1	.0	.1	.5	*	.0	.0	.7
48+	.0	.0	.2	.2	.0	.0	.4	.0	.1	*	.1	.0	.0	.2
TOT PCT	.0	.1	.1	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
1-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.5	6.2	1.0	.2	.0	13.3	.5	4.8	3.5	.3	.0	.0	9.0

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0021 EAST LONDON
32.55 29.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.9	.1	.0	.0	.0		1.3	.3	.5	.0	.0	.0	.0		.8
1-2	*	3.1	.6	.0	.0	.0		3.8	.2	2.4	1.1	.0	.0	.0		3.7
3-4	.0	1.3	2.5	.1	.0	.0		3.9	.0	1.7	3.4	.5	.0	.0		5.6
5-6	.0	.4	2.2	.6	.0	.0		3.3	.0	.5	3.1	1.3	.2	.0		5.1
7	.0	.0	1.1	.7	.0	.0		1.8	.0	.0	1.6	1.4	.2	.1		3.3
8-9	.0	.0	.5	.4	.0	.0		.9	.0	.1	.7	.6	.2	.0		1.5
10-11	.0	.0	.1	.5	.1	.0		.6	.0	.0	.2	.8	*	.0		1.1
12	.0	.0	.1	.2	.0	.0		.3	.0	.0	.1	.3	.0	.0		.4
13-16	.0	.1	.0	.2	.0	.0		.3	.0	.0	.1	.1	.1	.1		.3
17-19	.0	.0	.1	*	*	.0		.2	.0	.0	.0	.2	.1	.0		.3
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	*	.0	.0		*	.0	.0	.0	*	.0	.0		*
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	5.8	7.3	2.8	.1	.0		16.4	.5	5.3	10.2	5.2	.9	.1		22.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.2	.0	.0	.0	.0		.3	.2	*	.0	.0	.0	.0		.2	
1-2	.2	1.7	.5	.0	.0	.0		2.5	.0	.7	.1	.0	.0	.0		.8	
3-4	.0	1.0	1.0	.1	.0	.0		2.0	.0	.3	.1	.0	.0	.0		.4	
5-6	.0	.1	.6	.4	.1	.0		1.2	.0	.0	*	.1	.0	.0		.1	
7	.0	.0	.6	.1	.0	.0		.7	.0	.0	*	.0	.0	.0		*	
8-9	.0	.0	*	.1	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.1	.1	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.1	*	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.1	2.9	.9	.1	.0		7.2	.2	1.0	.2	.1	.0	.0		1.4	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	4.1	.1	.0	.0	.0	7.9	
1-2	1.4	18.1	6.3	.0	.0	.0	25.8	
3-4	.1	8.7	14.4	1.8	.0	.0	25.0	
5-6	.1	2.5	11.9	4.5	.2	.0	19.2	
7	.0	.3	6.4	3.7	.5	.1	11.0	
8-9	.0	.3	1.9	2.3	.2	.0	4.7	
10-11	.0	.1	.7	2.1	.2	.0	3.2	
12	.0	.0	.2	.8	.2	.0	1.2	
13-16	.0	.1	.2	1.0	.2	.1	1.5	
17-19	.0	.0	.1	.2	.1	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.1	.1	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	34.3	42.1	16.7	1.7	.1	100.0	1693

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	.8	3.8	6.0	5.2	3.8	2.0	1.4	.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	477
4-7	.0	.3	2.0	5.9	7.0	4.1	3.2	1.1	2.3	.3	.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	527
8-9	.0	.1	.9	3.8	5.3	4.2	2.9	1.6	2.2	1.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	443
10-11	.0	.2	.4	.9	1.6	1.7	1.7	1.1	1.5	.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	189
12-13	.0	.0	.5	.1	.8	.6	.9	.4	1.0	.6	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	103
13	.0	.0	.0	.1	.5	.2	.3	.4	.5	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	45
INDFT	.8	1.0	1.6	1.6	1.3	1.3	1.0	.6	.4	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	194
TOTAL	31	106	223	347	399	275	223	111	164	51	21	15	11	1	0	0	0	0	0	0	1978
PCT	1.6	5.4	11.3	17.5	20.2	13.9	11.3	5.6	8.3	2.6	1.1	.8	.6	.1	.0	.0	.0	.0	.0	.0	100.0

DECEMBER

 PERIOD: (PRIMARY) 1859-1973
 (OVER-ALL) 1854-1973

 AREA 0021 EAST LONDON
 32.55 30.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRIZ PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST RLWG SNOW	
N	1.8	2.5	2.1	.0	.0	.0	.0	6.0	1.4	2.2	6.2	.0	1.1	.6	82.4
NE	1.2	1.7	1.9	.0	.0	.0	.1	4.7	2.1	1.8	5.0	.0	1.9	.1	84.7
E	2.4	2.6	2.5	.0	.0	.0	.0	7.5	1.8	.9	3.1	.0	2.1	.0	84.9
SE	3.9	2.8	2.2	.0	.0	.0	.0	8.9	3.2	.9	1.1	.0	.6	.0	85.3
S	2.2	2.4	1.8	.0	.0	.0	.4	6.8	3.7	1.9	1.1	.0	.7	.0	86.5
SW	2.9	3.6	3.1	.0	.0	.0	.2	9.6	2.9	1.8	1.6	.0	1.7	.0	82.7
W	2.9	3.1	2.2	.0	.0	.0	.4	8.6	1.6	1.0	3.0	.0	1.5	.0	84.7
NW	5.6	5.3	2.8	.0	.0	.0	.0	13.7	2.1	9.2	3.2	.0	.0	.0	76.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	96.9
TOT PCT	2.4	2.6	2.3	.0	.0	.0	.2	7.4	2.5	1.8	2.9	.0	1.4	.1	84.4
TOT OBS:	3019														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRIZ PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST RLWG SNOW	
0000	3.3	3.0	3.1	.0	.0	.0	.1	9.5	3.3	3.7	1.8	.0	.7	.0	81.7
0600	1.8	3.0	2.1	.0	.0	.0	.2	7.0	2.7	.1	4.5	.1	.7	.1	84.9
1200	1.1	1.8	1.9	.0	.0	.0	.0	4.6	1.6	.1	2.7	.0	2.2	.1	86.7
1800	3.3	2.8	1.9	.0	.0	.0	.2	8.1	2.1	3.7	3.0	.0	1.9	.0	82.0
TOT PCT	2.3	2.6	2.2	.0	.0	.0	.2	7.3	2.4	1.9	3.1	*	1.4	.1	84.3
TOT OBS:	3115														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	2.1	2.7	1.4	.2	*		6.9	15.0		4.8	8.5	7.8	8.4	5.9	6.0	5.5	6.7
NE	.5	5.6	10.0	4.5	.8	.1		21.5	10.4		23.2	19.1	21.4	21.1	23.0	20.4	22.5	22.2
E	.9	6.0	7.0	1.5	.2	*		15.6	12.9		11.6	14.8	12.0	15.3	18.5	17.7	17.7	17.4
SE	.6	4.2	2.6	.5	.1	.1		8.0	11.0		8.3	9.1	6.8	7.1	6.6	9.4	9.1	7.7
S	.9	5.7	5.5	2.3	.4	.1		14.9	13.9		15.3	13.2	12.7	13.9	15.5	16.6	17.1	15.8
SW	.9	5.3	7.8	4.3	1.3	.2		19.8	17.1		22.7	19.1	22.6	20.0	21.8	20.8	17.1	16.7
W	.5	2.8	2.7	1.5	.7	.2		8.4	16.8		9.1	9.7	11.4	8.5	6.9	5.9	6.6	7.6
NW	.2	1.4	1.0	.4	.1	*		3.1	12.3		3.5	4.3	3.6	3.5	1.0	2.0	2.2	3.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		1.5	2.3	1.7	2.2	.9	1.1	2.3	2.3
TOT OBS	515	2472	2937	1216	278	49	7467		14.7		521	931	1237	1267	558	702	1368	853
TOT PCT	6.9	33.1	39.3	16.3	3.7	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	1.3	2.6	2.3	.6	.1		6.9	15.0		7.2	8.1	5.9	6.0
NE	2.5	8.5	8.2	2.0	.3		21.5	10.4		20.5	21.2	21.6	22.4
E	3.0	7.7	4.2	.5	.1		15.6	12.9		13.7	13.7	18.0	17.5
SE	2.4	4.2	1.2	.2	.1		8.0	11.0		3.8	7.0	8.2	8.5
S	3.1	6.9	3.7	1.1	.1		14.9	13.9		14.0	13.3	16.1	16.6
SW	2.7	7.6	6.4	2.6	.5		19.8	17.1		20.4	21.3	21.3	16.9
W	1.6	3.2	2.0	1.0	.5		8.4	16.8		9.5	10.0	6.4	7.0
NW	.9	1.4	.6	.1	*		3.1	12.3		4.0	3.5	1.6	2.7
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	1.9						1.9	.0		2.0	2.0	1.0	2.3
TOT OBS	1440	3150	2143	608	126	7467		14.7		1482	2504	1260	2221
TOT PCT	19.3	42.2	28.7	8.1	1.7		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1969-1973
(OVER-ALL) 1954-1973

DECEMBER

AREA 0021 EAST LONDON
32.55 30.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
0000	2.0	5.3	36.3	37.6	14.9	3.2	.5	14.1	1482
0600	2.0	6.0	33.1	37.7	16.1	4.4	.7	14.7	2504
1200	1.0	4.0	29.6	42.8	18.3	3.7	.5	15.5	1260
1800	2.3	4.2	32.9	40.3	16.2	3.2	.9	14.6	2221
TOT	143	372	2472	2937	1216	278	49	14.7	7467
PCT	1.9	5.0	33.1	39.3	16.3	3.7	.7	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	.8	1.3	1.5		4.8
NE	7.3	4.4	7.0	5.9		4.5
E	4.2	1.9	3.7	4.2		4.9
SE	1.8	1.3	1.9	2.3		5.0
S	3.2	2.7	5.2	4.0		5.1
SW	4.8	3.4	7.4	5.8		5.1
W	2.6	1.8	2.7	2.0		4.6
NW	.6	.3	.3	.4		4.6
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.1	.3		3.1
TOT OBS	564	352	524	562	2102	4.8
TOT PCT	26.8	16.7	29.7	26.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	OBS
.0	*	.2	.7	.8	.3	.1	.1	.1	.1	.1	2.7		
.1	.1	.4	2.3	4.0	1.6	.7	.1	.2	.1	15.0			
.0	*	.2	1.3	3.0	1.2	.5	.1	*	.3	7.4			
.0	*	.4	.9	1.0	.8	.1	*	.0	*	4.0			
.1	.1	.3	1.6	3.0	2.2	.4	*	.0	.0	7.5			
.1	.1	.6	2.3	4.0	2.0	.8	.2	.1	.2	11.1			
.1	.1	.1	.7	1.4	.8	.2	*	.0	.1	5.3			
*	.0	*	.2	.2	.1	.2	*	*	.0	1.0			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
.0	.0	.0	.0	.2	.1	.0	.0	.1	.0	1.0			
10	10	49	208	371	191	65	13	12	17	1156		2102	
.5	.5	2.3	9.9	17.6	9.1	3.1	.6	.6	.8	55.0		100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>3500	3.5	5.1	5.1	5.1	5.1	5.1	5.2	5.2
>2000	10.5	13.9	14.3	14.3	14.3	14.3	14.4	14.4
>1000	22.7	30.3	31.6	31.6	31.7	31.7	31.8	31.8
>600	28.8	39.2	41.2	41.3	41.3	41.4	41.4	41.4
>300	29.9	41.2	43.5	43.6	43.6	43.7	43.7	43.7
>150	29.9	41.5	43.9	44.0	44.1	44.2	44.2	44.2
>0	29.9	41.7	44.2	44.4	44.4	44.6	44.7	44.7
TOTAL	648	902	956	961	962	965	967	967

TOTAL NUMBER OF OBS: 2165

PCT FREQ NH <5/8: 55.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	10.0	15.2	12.2	9.9	7.9	7.3	7.3	9.5	20.4	.3	2296

DECEMBER

PERIOD: (PRIMARY) 1869-1973
(OVER-ALL) 1854-1973AREA 0021 EAST LONDON
32.95 30.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	*	*	.0	.0	.0	.0	.1	*	.0	*	.2	
	TOT %	*	*	.0	.0	.0	.1	.1	*	.0	*	.2	
1/2<1	PCP	.0	*	*	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	.3	.9	.2	*	.1	.2	*	*	.0	.0	2.0	
	TOT %	.3	1.0	.2	*	.1	.2	*	*	.0	.0	2.1	
1<2	PCP	.0	*	.1	*	*	.1	*	.0	.0	.0	.3	
	NO PCP	*	.1	.1	*	.0	*	*	*	.0	.0	.3	
	TOT %	*	.1	.1	*	*	.1	.1	*	.0	.0	.6	
2<5	PCP	*	.1	.1	.1	.1	.2	.1	.0	.0	.0	.8	
	NO PCP	*	.6	.3	.1	.4	.7	.3	*	.0	.0	2.3	
	TOT %	.1	.7	.4	.2	.5	.9	.3	*	.0	.0	3.1	
5<10	PCP	.2	.8	.5	.3	.9	1.3	.4	.2	.0	.0	4.7	
	NO PCP	2.2	7.0	3.3	2.0	4.5	5.7	1.9	.7	.0	.2	27.6	
	TOT %	2.4	7.8	3.8	2.4	5.4	7.0	2.4	.9	.0	.2	32.3	
10+	PCP	.1	.2	.2	.2	.1	.4	.2	.1	.0	.0	1.4	
	NO PCP	2.9	14.2	8.8	4.4	9.8	12.7	5.3	1.3	.0	.9	60.4	
	TOT %	3.0	14.4	9.0	4.6	9.9	13.1	5.4	1.4	.0	.9	61.7	
TOT OBS													
TOT PCT													
5.9 24.0 13.7 7.3 16.0 21.4 8.3 2.4 .0 1.1 100.0 3013													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	*	*	*	*	.0	.1	.0	*	.0	.0	.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	*	*	.0	.1	*	*	.0	.1	.3	
1/2<1	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.1	*	.1	.1	*	*	.0	.0	.5	
	11-21	.1	.4	*	.0	*	.1	*	*	.0	.0	.7	
	22+	.1	.2	*	.0	.0	.1	.0	.0	.0	.0	.5	
	TOT %	.3	.8	.2	*	.1	.3	*	*	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.1	.1	.1	*	.0	*	.0	.0	.3	
	11-21	.0	.1	.1	.1	*	*	.1	.0	.0	.0	.4	
	22+	.0	.1	.0	.0	*	*	*	.0	.0	.0	.1	
	TOT %	*	.1	.2	.1	.1	.1	.1	*	.0	.0	.8	
2<5	0-3	.0	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	4-10	*	*	.2	.1	.2	.3	.2	*	.0	.0	1.1	
	11-21	.1	.3	.3	.1	.2	.5	.2	.0	.0	.0	1.6	
	22+	.0	.3	.1	.1	.2	.4	.1	.0	.0	.0	1.1	
	TOT %	.1	.7	.5	.3	.6	1.3	.5	*	.0	.0	3.9	
5<10	0-3	.2	.1	.3	.1	.2	.2	.2	.1	.0	.2	1.6	
	4-10	.7	1.7	1.7	1.3	1.8	1.8	.9	.3	.0	.0	10.0	
	11-21	.8	3.2	1.6	.9	1.9	2.5	.7	.2	.0	.0	11.9	
	22+	.4	1.9	.2	.1	1.2	2.6	.7	.1	.0	.0	7.1	
	TOT %	2.1	6.9	3.8	2.3	5.1	7.0	2.4	.8	.0	.2	30.6	
10+	0-3	.1	.3	.4	.2	.5	.5	.3	.1	.0	1.2	3.6	
	4-10	1.2	4.0	4.0	3.3	4.4	3.6	2.0	.8	.0	.0	23.3	
	11-21	1.6	7.5	4.4	1.3	3.7	6.4	2.3	.3	.0	.0	27.5	
	22+	.4	2.0	.5	*	1.2	3.1	1.0	.1	.0	.0	8.3	
	TOT %	3.3	13.8	9.3	4.9	9.8	13.5	5.6	1.3	.0	1.2	62.6	
TOT OBS													
TOT PCT													
5.7 22.3 14.1 7.7 15.6 22.3 8.7 2.1 .0 1.5 100.0 3653													

PERIOD: (PRIMARY) 1869-1973
(OVER-ALL) 1854-1973

DECEMBER

AREA 0021 EAST LONDON
32.55 30.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.0	.4	2.5	10.9	16.5	6.7	2.9	1.1	.4	.8	43.1	56.9	522
06009	.4	.9	3.3	8.5	16.0	9.0	3.5	.7	.9	.9	44.0	56.0	568
12015	.3	.3	1.3	7.5	14.7	9.0	2.2	.3	.2	.5	36.4	63.6	599
18021	.2	.2	1.8	10.8	20.7	10.8	3.7	.2	1.1	.9	50.4	49.6	546
TOT	10	10	50	209	378	199	68	13	14	17	968	1267	2235
PCT	.4	.4	2.2	9.4	16.9	8.9	3.0	.6	.6	.8	43.3	56.7	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.8	.4	4.2	27.2	67.2	832
06009	.4	2.6	1.1	3.2	33.5	59.2	1025
12015	.4	1.4	1.0	3.1	22.5	71.6	830
18021	.1	2.4	.7	5.0	36.3	55.6	1062
TOT	10	71	29	147	1142	2350	3749
PCT	.3	1.9	.8	3.9	30.5	62.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.0	3.9	17.2	27.6	55.2	511
06009	.4	4.9	15.5	30.4	54.1	549
12015	.3	2.4	12.6	26.3	61.1	579
18021	.2	2.3	16.0	37.1	47.0	526
TOT	10	73	330	655	1180	2165
PCT	.5	3.4	15.2	30.3	54.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	.0	.0	1	*
80/84	.0	.0	.0	.0	.3	.7	.1	*	25	1.1
75/79	.0	.0	.0	.5	1.8	4.8	6.9	2.8	371	16.7
70/74	.0	*	.3	1.5	7.2	16.0	16.2	10.0	1139	51.4
65/69	.0	.0	*	1.4	5.4	8.0	7.1	4.6	591	26.6
60/64	.0	.0	.0	.4	.9	.9	.7	.7	84	3.8
55/59	.0	.0	.0	*	*	.2	*	.0	7	.3
TOTAL	0	1	8	86	345	681	694	403	2218	100.0
PCT	.0	*	.4	3.9	15.6	30.7	31.3	18.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.3	.4	.2	.0	*	.2	.0	*	.0	*
75/79	1.5	7.7	2.2	.5	1.4	2.3	.8	.1	.0	.2
70/74	2.9	12.3	8.0	3.8	7.4	11.2	4.1	.8	.0	.8
65/69	.4	3.0	3.0	2.8	5.2	7.7	3.4	.8	.0	.3
60/64	*	.1	.2	.2	.9	1.5	.7	.1	.0	.0
55/59	.0	.0	.0	.0	*	.2	.1	.0	.0	.0
TOTAL	5.1	23.6	13.6	7.3	14.9	23.2	9.0	1.9	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	77	75	70	64	60	54	69.7	1469
06009	86	81	78	72	66	62	54	71.9	2439
12015	86	82	79	73	66	63	61	72.7	1248
18021	82	78	76	71	65	62	58	70.8	2179
TOT	86	80	77	71	65	62	54	71.3	7335

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.5	12.1	26.0	33.9	25.5	81	569
06009	.0	4.2	15.9	32.5	31.3	16.1	78	591
12015	.0	7.6	26.1	34.2	26.6	11.5	76	567
18021	.0	3.7	14.3	28.7	33.3	20.1	80	568
TOT	0	103	358	697	718	419	79	2295

PERIOD: (PRIMARY) 1969-1973
(OVER-ALL) 1854-1973

DECEMBER

AREA 0021 EAST LONDON
32.55 30.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	*	.0	.1	.1	.0	*	7	*	.2
9/10	.0	.0	.0	.0	.1	.2	.0	*	*	10	.0	.4
7/8	.0	.0	.0	.1	.3	.3	.2	.0	.0	29	*	1.0
6	.0	.0	.0	*	.2	.5	.4	.1	.0	32	.1	1.0
5	.0	.0	.0	.2	.5	.7	.3	.1	.0	51	*	1.8
4	.0	.0	.1	.3	.7	1.5	.6	.1	.0	93	.1	3.2
3	.0	.0	*	.6	.8	2.4	1.1	.1	*	141	.3	4.7
2	.0	.0	.1	.5	1.8	3.7	1.4	.1	*	216	.7	6.9
1	.0	.0	.1	.7	3.8	6.2	.6	.0	.0	322	.7	10.6
0	.0	.0	.2	1.3	4.5	5.9	.8	*	.0	362	.4	12.3
-1	.0	.0	.1	1.7	6.0	5.2	.3	*	.0	374	.2	12.9
-2	.0	.0	.2	2.0	5.2	2.9	.2	.0	.0	299	.2	10.3
-3	.0	.0	.2	1.9	4.3	1.6	.1	.0	.0	227	.1	7.9
-4	.0	.0	.5	2.4	3.5	.5	.1	.0	.0	198	*	6.9
-5	.0	.1	.8	2.7	2.9	.6	*	.0	.0	201	.1	7.0
-6	.0	.1	.5	1.8	1.1	.1	*	.0	.0	102	*	3.6
-7/-8	.0	.2	.6	2.1	.8	.1	.0	.0	.0	110	.0	3.9
-9/-10	.0	*	.2	.6	.4	.0	.0	.0	.0	43	.0	1.5
-11/-13	*	.1	.1	.2	.1	.0	.0	.0	.0	16	.0	.6
-14/-16	.0	.0	*	.0	*	.0	.0	.0	.0	2	.0	.1
-17/-19	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	1	12	112	1043	919	178	4	2837	90	2747		
PCT	*	.4	3.9	19.3	36.8	32.4	6.3	.7	.1	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.1	.0	.0	.0	.4	.2	.9	.2	.0	.0	.0	1.3
1-2	.1	.9	.2	.0	.0	.0	1.2	.2	2.8	1.9	.0	.0	.0	4.8
3-4	.0	.4	.7	.2	.0	.0	1.2	.0	1.5	6.1	.7	.0	.0	8.3
5-6	.0	.4	.7	.2	.0	.0	1.2	.1	.6	3.0	1.0	.1	.0	4.7
7	.0	.1	.3	*	.0	.0	.4	.0	.1	2.2	1.7	.1	.0	3.9
8-9	.0	.1	.1	.2	.0	.0	.3	.0	.0	.8	.8	.0	.0	1.6
10-11	.0	.0	.1	.0	*	.0	.1	.0	.0	.1	.5	*	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.0	.0	*	.0	*	.0	.0	.1	.2	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.0	2.1	.6	.1	.0	5.0	.5	5.8	14.3	5.0	.6	.0	26.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.7	.0	.0	.0	.0	1.0	.1	.5	.0	.0	.0	.0	.6
1-2	.1	3.0	1.1	.0	.0	.0	4.2	.1	2.3	.6	.0	.0	.0	3.0
3-4	.0	1.8	3.2	.1	.0	.0	5.1	.0	1.2	.8	*	.0	.0	2.0
5-6	.0	.2	2.5	.3	.1	.0	3.1	.0	.3	.3	*	.0	.0	.6
7	.0	.1	.6	.1	.0	.0	.9	.0	*	.2	*	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.8	7.4	.8	.1	.0	14.6	.2	4.3	1.8	*	.0	.0	6.4

PERIOD: (OVER-ALL) 1943-1973

DECEMBER

AREA 0021 EAST LONDON
32.55 30.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.6	.0	.0	.0	.0	1.1	.7	.4	.0	.0	.0	.0	.6
1-2	.1	2.3	.6	.0	.0	.0	2.9	.2	1.8	1.1	.0	.0	.0	3.2
3-4	.1	2.0	2.5	.2	.0	.0	4.8	.1	1.7	2.4	.4	.0	.0	4.5
5-6	.0	.8	1.8	.6	.1	.0	3.3	.0	.2	4.0	1.4	.0	.0	5.7
7	.0	.3	.8	.5	.1	.0	1.7	.0	.2	1.7	1.1	.2	.0	3.2
8-9	.0	.0	.1	.5	.1	.0	.7	.0	.1	.4	.7	.1	.0	1.3
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.3	1.3	.1	.0	1.7
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.3
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.6	.2	.1	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.9	5.9	2.2	.3	.0	15.0	.5	4.5	9.9	6.0	.7	.1	21.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	.0	.0	.0	.0	.9	.0	.1	.0	.0	.0	.0	.1	
1-2	.3	1.5	.3	.0	.0	.0	2.1	.1	.2	.1	.0	.0	.0	.3	
3-4	.0	.7	1.4	.1	.0	.0	2.2	.0	.4	.2	.0	.0	.0	.6	
5-6	.0	.2	.9	.4	.1	.0	1.5	.0	.0	.2	.1	.0	.0	.3	
7	.0	.1	.4	.2	.2	.0	.9	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.1	3.1	1.3	.4	.0	8.4	.1	.7	.5	.2	.0	.0	1.4	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	3.9	.3	.0	.0	.0	8.1	
1-2	1.5	15.2	5.7	.0	.0	.0	22.3	
3-4	.1	9.6	16.9	1.7	.0	.0	28.3	
5-6	.1	2.7	13.1	3.8	.3	.0	19.9	
7	.0	.8	6.0	3.7	.5	.0	11.0	
8-9	.1	.1	1.5	2.3	.3	.0	4.3	
10-11	.0	.0	.5	2.3	.1	.0	2.9	
12	.0	.0	.1	.5	.1	.0	.6	
13-16	.0	.0	.1	1.2	.4	.1	1.8	
17-19	.0	.0	.0	.1	.1	.0	.1	
20-22	.0	.0	.0	.1	.3	.0	.4	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	32.2	44.2	15.7	2.2	.1	100.0	1576

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	3.9	6.7	5.4	3.1	1.8	1.2	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	436	5
6-7	.0	.4	3.2	5.9	6.9	4.9	3.4	1.7	2.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	540	8
8-9	.0	.1	.9	3.3	4.1	4.4	4.1	2.1	3.0	.5	.1	.1	.1	.2	.0	.0	.0	.0	.0	432	9
10-11	.0	.2	.1	.7	1.5	2.1	1.0	.6	1.2	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	152	9
12-13	.0	.0	.4	.1	.4	.6	.8	.4	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	70	10
13	.0	.0	.0	.2	.3	.3	.3	.2	.5	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	38	13
INDET	.6	1.0	1.9	2.8	1.6	1.0	1.3	.2	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	207	6
TOTAL	20	104	248	344	335	282	226	99	157	31	10	7	6	6	0	0	0	0	0	1874	7
PCT	1.1	5.3	13.2	18.3	17.9	15.0	12.1	5.3	8.4	1.7	.5	.4	.3	.3	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1854-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.4	1.0	1.1	.0	.0	.0	*	4.5	.9	4.4	5.8	*	1.8	.3	83.1
NE	1.7	1.1	1.1	.0	.0	.0	*	3.8	1.4	2.8	3.0	*	2.6	.1	86.7
E	3.7	2.0	1.9	.0	.0	.0	*	7.5	2.4	2.7	1.8	.0	1.7	.1	84.8
SE	4.3	3.8	2.4	.0	.0	.0	.0	10.5	4.2	2.0	.9	.0	.4	.1	82.5
S	4.8	4.6	2.0	.0	.0	.0	.1	11.4	3.7	3.0	1.6	.0	.5	.1	80.7
SW	4.4	4.6	2.2	.0	.0	.0	.1	11.1	4.2	2.8	1.4	.1	1.3	.1	79.9
W	3.6	3.0	1.6	.0	.0	.0	.1	8.3	3.0	2.8	1.8	.1	.8	.1	83.9
NW	3.0	1.9	1.0	.0	.0	.0	.0	6.0	1.6	5.3	4.5	.1	1.2	*	82.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	1.6	1.1	.0	.0	.0	.0	3.3	1.4	2.6	2.4	.0	1.9	.0	88.4
TOT PCT	3.3	2.8	1.7	.0	.0	.0	.1	7.8	2.7	2.9	2.3	*	1.5	.1	83.3
TOT OBS: 33456															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.9	3.2	1.9	.0	.0	.0	.1	9.0	3.4	4.9	1.6	.1	.8	.1	80.8
0600	2.8	3.2	1.7	.0	.0	.0	.1	7.6	2.7	.7	3.2	.1	1.5	.1	84.4
1200	2.2	2.0	1.4	.0	.0	.0	.0	5.6	2.2	.5	2.3	*	2.1	.2	87.4
1800	4.4	2.9	1.7	.0	.0	.0	.1	9.0	2.4	5.7	2.3	*	1.4	.1	80.6
TOT PCT	3.3	2.8	1.7	.0	.0	.0	.1	7.8	2.7	2.9	2.4	.1	1.5	.1	83.3
TOT OBS: 34660															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.5	3.0	4.1	2.2	.4	*		10.3	15.7		8.9	11.5	11.5	11.4	7.5	9.8	8.8	10.6
NE	.7	5.5	9.1	4.6	.8	.1		20.8	16.3		23.2	20.0	19.6	18.2	23.1	20.8	22.6	22.0
E	.7	4.6	4.8	1.5	.2	*		11.9	13.0		9.2	11.1	10.0	11.7	12.0	14.4	13.7	12.5
SE	.5	3.4	2.6	.7	.1	*		7.5	12.2		6.5	6.9	6.4	7.5	7.3	8.8	8.5	7.5
S	.7	4.3	4.4	2.0	.5	.1		12.0	15.0		10.9	11.0	10.5	11.9	14.1	13.2	13.6	11.5
SW	.7	4.8	7.1	4.8	1.9	.5		19.8	18.9		22.8	17.8	20.5	18.6	25.4	19.5	19.9	17.3
W	.6	3.3	3.6	2.1	1.0	.4		11.0	17.8		12.4	12.7	13.7	12.2	7.5	8.5	8.0	11.1
NW	.4	2.2	1.5	.6	.2	.1		4.9	12.7		4.2	6.6	6.2	6.2	2.0	3.7	3.2	5.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		2.0	2.4	1.6	2.3	1.2	1.2	1.7	2.0
TOT OBS							81773		15.7		5878	10225	13434	15039	5845	7751	14553	9048
TOT PCT	6.6	31.3	37.2	18.4	5.2	1.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.7	3.9	3.5	1.1	.1		10.3	15.7	10.6	11.5	8.8	9.5	
NE	2.6	8.3	7.5	2.2	.3		20.8	16.3	21.2	18.9	21.9	22.4	
E	2.5	5.7	3.0	.6	.1		11.9	13.0	10.5	10.8	13.4	13.3	
SE	1.9	3.6	1.5	.3	.1		7.5	12.2	6.7	7.0	8.2	8.1	
S	2.3	5.2	3.1	1.1	.3		12.0	15.0	11.0	11.2	13.6	12.8	
SW	2.4	6.9	6.1	3.3	1.1		19.8	18.9	19.6	19.5	21.9	18.9	
W	1.9	4.0	2.8	1.5	.8		11.0	17.8	12.5	12.9	8.1	9.2	
NW	1.4	2.1	1.0	.3	.1		4.9	12.7	5.7	6.2	2.9	4.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.8						1.8	.0	2.2	2.0	1.2	1.8	
TOT OBS						81773		15.7	16103	28473	13596	23601	
TOT PCT	18.6	39.7	28.5	10.3	2.9		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1854-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.2	5.0	33.9	35.9	17.1	4.9	1.1	15.1	100.0	16103
06009	2.0	5.3	29.9	36.7	18.9	5.8	1.5	16.0	100.0	28473
12015	1.2	3.8	30.2	39.6	19.3	5.0	.8	16.0	100.0	13596
18021	1.8	4.6	31.9	37.4	18.2	4.9	1.2	15.5	100.0	23601
TOT								15.7		81773
PCT	1.8	4.8	31.3	37.2	18.4	5.2	1.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL DBSCD	MEAN CLOUD COVER
N	3.8	1.5	2.0	1.1		3.8
NE	10.2	4.0	5.6	3.5		3.5
E	3.3	1.6	2.9	2.7		4.3
SE	1.3	1.1	2.1	2.5		5.2
S	2.5	2.3	4.0	3.5		5.0
SW	6.4	4.3	7.1	5.5		4.7
W	3.8	2.0	2.9	1.7		4.1
NW	1.5	.5	.7	.4		3.7
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.3	.2		3.4
TOT OBS					22484	4.3
TOT PCT	33.7	17.5	27.7	21.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL DBS
	149	299	599	999	1999	3499	4999	6499	7999			
*	*	*	.1	.6	.8	.5	.2	.1	.1	.1	.1	6.1
.1	*	.3	1.4	2.9	1.2	.5	.1	.1	.1	.1	.2	16.4
*	*	.2	.9	1.8	1.0	.3	.1	.1	.1	.1	.1	6.1
*	*	.2	1.0	1.4	.7	.2	.1	*	*	*	*	3.3
.1	.1	.3	1.6	2.4	1.3	.3	.1	.1	.1	*	*	6.1
.1	.1	.6	2.7	3.9	1.9	.6	.2	.1	.1	.1	.1	13.3
*	*	.2	.7	1.5	.7	.2	.1	*	*	*	*	6.9
*	*	*	.2	.3	.2	.1	*	*	*	*	*	2.3
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
*	*	*	.1	.1	.1	*	.0	*	*	*	*	1.0
.4	.2	1.9	9.1	15.2	7.5	2.3	.6	.5	.7	61.5		22484
												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >4000	1.4	1.7	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3500	3.1	4.0	4.1	4.1	4.1	4.1	4.1	4.1
= OR >2000	8.8	11.2	11.6	11.7	11.7	11.7	11.7	11.7
= OR >1000	19.5	25.7	26.7	26.8	26.8	26.8	26.8	26.8
= OR >600	24.7	34.0	35.7	35.8	35.8	35.9	35.9	35.9
= OR >300	25.5	35.6	37.5	37.7	37.7	37.7	37.8	37.8
= OR >150	25.6	35.7	37.7	37.9	38.0	38.0	38.0	38.0
= OR >0	25.7	36.0	38.0	38.3	38.3	38.4	38.4	38.4

TOTAL NUMBER OF OBS: 23122

PCT FREQ NH <5/8: 61.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 DBSCD	TOTAL DBS
	17.0	13.9	12.3	10.1	7.9	6.3	7.6	8.0	16.6	.3 24492

PERIOD: (PRIMARY) 1968-1973
(OVER-ALL) 1854-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	*	*	*	.0	.0	.0	*	
	NO PCP	*	*	*	.0	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	.0	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
	NO PCP	.4	.5	.1	*	.1	.2	.1	.1	.0	.0	1.6	
	TOT %	.4	.5	.2	.1	.1	.2	.1	.1	.0	.0	1.8	
1<2	PCP	*	*	*	*	*	.1	*	*	.0	*	.2	
	NO PCP	*	.2	.1	*	*	.1	*	*	.0	.0	.4	
	TOT %	*	.2	.1	*	.1	.2	.1	*	.0	*	.7	
2<5	PCP	*	.1	.1	.1	.2	.3	.1	*	.0	*	1.0	
	NO PCP	.1	.3	.1	.1	.2	.4	.2	*	.0	*	1.3	
	TOT %	.1	.4	.3	.2	.3	.7	.3	*	.0	*	2.3	
5<10	PCP	.2	.6	.5	.4	1.0	1.5	.4	.1	.0	*	4.7	
	NO PCP	2.9	6.2	2.9	1.8	3.4	5.9	2.3	1.3	.0	.1	26.9	
	TOT %	3.2	6.8	3.4	2.3	4.4	7.4	2.7	1.4	.0	.1	31.6	
10+	PCP	.1	.2	.2	.2	.2	.5	.2	*	.0	*	1.6	
	NO PCP	5.4	14.6	6.5	4.3	7.6	13.7	6.7	2.1	.0	.9	61.9	
	TOT %	5.4	14.8	6.7	4.5	7.8	14.2	6.9	2.2	.0	1.0	63.5	
TOT OBS													33413
TOT PCT													9.2 22.7 10.6 7.0 12.7 22.8 10.0 3.8 .0 1.1 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	*	*	*	*	.0	*	.1	
	4-10	.0	*	*	.0	*	*	*	*	.0	*	*	
	11-21	*	*	*	*	*	*	.0	*	.0	*	*	
	22+	*	*	.0	.0	*	*	*	.0	.0	*	*	
	TOT %	*	*	*	*	*	*	*	.0	.0	*	.2	
1/2<1	0-3	.0	*	*	*	*	*	*	*	.0	*	*	
	4-10	.1	.1	.1	*	.1	.1	*	*	.0	*	.4	
	11-21	.2	.2	*	*	*	.1	*	*	.0	*	.6	
	22+	.1	.1	*	*	*	.1	*	*	.0	*	.5	
	TOT %	.4	.4	.1	.1	.1	.2	.1	.1	.0	*	1.5	
1<2	0-3	*	*	*	.0	*	*	.0	*	.0	*	*	
	4-10	*	.1	*	*	*	.1	*	*	.0	*	.3	
	11-21	*	.1	*	*	*	*	*	*	.0	*	.2	
	22+	*	*	*	*	*	.1	*	*	.0	*	.2	
	TOT %	*	.2	.1	*	.1	.2	.1	*	.0	*	.8	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	*	.1	.1	.1	.1	.2	.1	*	.0	*	.8	
	11-21	.1	.2	.2	.1	.1	.3	.1	*	.0	*	1.1	
	22+	*	.2	.1	*	.1	.4	.1	*	.0	*	1.0	
	TOT %	.1	.5	.3	.2	.4	.9	.4	.1	.0	*	3.0	
5<10	0-3	.1	.2	.2	.1	.2	.2	.1	.1	.0	.2	1.4	
	4-10	.8	1.7	1.3	.9	1.2	1.6	.9	.6	.0	*	9.0	
	11-21	1.1	2.7	1.3	.9	1.5	2.6	1.0	.4	.0	*	11.5	
	22+	.7	1.6	.4	.2	1.1	2.8	.8	.1	.0	*	7.8	
	TOT %	2.8	6.2	3.2	2.1	3.9	7.1	2.8	1.3	.0	.2	29.7	
10+	0-3	.3	.4	.4	.2	.3	.4	.3	.2	.0	1.1	3.7	
	4-10	2.2	4.3	3.2	2.6	3.2	3.8	2.7	1.5	.0	*	23.5	
	11-21	2.2	7.0	2.8	1.5	3.0	6.1	2.9	.7	.0	*	26.1	
	22+	.8	2.9	.5	.2	1.1	4.4	1.6	.1	.0	*	11.6	
	TOT %	5.5	14.7	7.0	4.5	7.6	14.6	7.5	2.5	.0	1.1	64.9	
TOT OBS													40622
TOT PCT													8.9 22.0 10.8 6.9 12.1 23.0 10.8 4.0 .0 1.4 100.0

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PERIOD: (PRIMARY) 1868-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	.2	1.8	9.5	14.5	6.8	2.1	.7	.5	.7	37.7	62.3	5775
06009	.2	.3	2.1	9.0	16.2	7.5	2.5	.6	.5	.8	39.7	60.3	6211
12015	.2	.2	1.5	7.5	13.0	6.8	2.2	.6	.4	.7	33.2	66.8	6204
18021	.5	.2	1.8	9.2	15.1	8.1	2.2	.5	.5	.7	38.8	61.2	5690
TOT													23880
PCT	.4	.2	1.8	8.8	14.7	7.3	2.2	.6	.5	.7	37.3	62.7	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.9	.4	2.5	27.2	68.7	9409
06009	.2	2.3	1.0	2.9	31.9	61.8	11486
12015	.1	1.4	.9	3.3	25.0	69.3	8988
18021	.2	1.5	.8	3.2	33.9	60.3	11942
TOT							41825
PCT	.2	1.6	.8	3.0	29.9	64.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.8	3.0	14.2	25.0	60.9	5594
06009	.2	2.7	13.6	27.7	58.6	6007
12015	.2	2.1	11.6	23.1	65.2	6030
18021	.5	2.7	13.7	26.9	59.4	5491
TOT						23122
PCT	.4	2.6	13.3	25.7	61.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	*	*	*	.0	.0		.1
80/84	*	*	*	.1	.2	.5	.5	.1		1.4
75/79	.0	*	.1	.3	1.2	3.8	4.8	2.3		12.5
70/74	*	*	.3	1.3	4.5	9.2	10.0	5.4		30.7
65/69	*	*	.3	2.1	6.4	9.6	10.4	6.0		34.9
60/64	.0	*	.2	1.4	3.5	4.4	4.2	2.4		16.1
55/59	.0	.0	*	.3	.8	1.2	1.0	.5		3.9
50/54	.0	.0	.0	*	*	.1	.1	.1		.3
45/49	.0	.0	.0	.0	*	*	*	*		*
TOTAL									24405	100.0
PCT	*	.1	1.0	5.4	16.8	28.8	31.1	16.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	*	.1	*	.0	*	*	*	*	.0	*
80/84	.2	.6	.2	*	.1	.2	.1	*	.0	.1
75/79	1.3	5.0	1.6	.7	1.2	1.8	.6	.3	.0	.1
70/74	3.0	8.1	3.9	2.3	3.5	6.3	2.3	.9	.0	.4
65/69	3.0	7.2	3.3	2.5	4.2	9.0	3.9	1.3	.0	.5
60/64	.7	1.6	1.3	1.3	2.3	5.3	2.8	.6	.0	.2
55/59	.1	.2	.1	.2	.7	1.4	.9	.2	.0	*
50/54	.0	*	*	*	*	.1	.1	*	.0	*
45/49	.0	.0	.0	*	*	*	*	*	.0	.0
TOTAL	8.3	22.8	10.4	7.0	12.0	24.1	10.7	3.4	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	76	74	68	61	58	47	68.0	15988
06009	89	79	76	70	62	59	48	69.8	27928
12015	89	80	77	71	63	60	48	70.6	13405
18021	86	76	74	69	62	59	48	69.0	23161
TOT	89	78	76	70	62	59	47	69.3	80482

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	*	4.4	13.7	26.6	33.9	21.3	80	6298
06009	.0	7.1	14.5	28.0	31.4	17.0	78	6548
12015	*	9.9	21.8	31.4	26.9	10.0	75	6029
18021	*	4.5	15.1	28.5	32.4	19.4	79	6397
TOT	3	1637	4259	7224	7842	4287	78	25272

PERIOD: (PRIMARY) 1854-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	81	85	89	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	*
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	58	*	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	119	*	.4
7/8	.0	.0	.0	.0	.0	.1	.3	.3	.2	.1	.0	.0	333	*	1.0
6	.0	.0	.0	.0	.0	.1	.2	.2	.1	.0	.0	.0	221	*	.7
5	.0	.0	.0	.0	.1	.3	.4	.5	.2	.1	.0	.0	518	*	1.6
4	.0	.0	.0	.0	.1	.5	.6	.7	.4	.1	.0	.0	803	.1	2.4
3	.0	.0	.0	.0	.1	.6	.9	1.0	.5	.1	.0	.0	1044	.2	3.1
2	.0	.0	.0	.0	.3	1.1	1.8	1.7	.9	.1	.0	.0	1932	.4	5.7
1	.0	.0	.0	.1	.3	1.6	3.0	2.3	.9	.1	.0	.0	2650	.4	8.0
0	.0	.0	.0	.1	.9	2.7	4.0	3.1	1.2	.1	.0	.0	3815	.5	11.6
-1	.0	.0	.0	.1	.9	3.0	3.9	2.7	.8	.0	.0	.0	3644	.3	11.2
-2	.0	.0	.0	.2	1.3	3.5	3.4	2.3	.5	.0	.0	.0	3533	.2	10.9
-3	.0	.0	.0	.2	1.3	3.3	2.8	1.5	.2	.0	.0	.0	3010	.1	9.3
-4	.0	.0	.0	.3	1.7	2.9	2.2	1.0	.2	.0	.0	.0	2651	.1	8.2
-5	.0	.0	.0	.4	1.9	2.4	1.8	.7	.1	.0	.0	.0	2356	.1	7.3
-6	.0	.0	.0	.4	1.4	1.5	.9	.2	.0	.0	.0	.0	1425	*	4.4
-7/-8	.0	.0	.1	.9	2.3	1.8	1.0	.2	.0	.0	.0	.0	2029	*	6.3
-9/-10	.0	.0	.2	.8	1.1	.7	.3	*	.0	.0	.0	.0	997	*	3.1
-11/-13	.0	.0	.2	.7	.5	.3	.1	*	.0	.0	.0	.0	570	*	1.8
-14/-16	.0	.0	.1	.2	.1	*	*	.0	.0	.0	.0	.0	147	.0	.5
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.1
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	*
TOTAL													31895		
PCT	*	.1	.8	4.3	14.1	26.7	27.8	18.6	6.4	.9	.1	*	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N								NE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.3	*	.0	.0	.0	.5		.2	.5	*	.0	.0	.0	.0	.7
1-2	.1	1.5	.5	.0	.0	.0	2.1		.2	3.1	1.3	.0	.0	.0	.0	4.7
3-4	*	.8	1.3	.2	.0	.0	2.2		*	1.8	4.2	.4	.0	.0	.0	6.4
5-6	*	.2	1.0	.3	*	.0	1.6		*	.5	3.3	1.2	.1	.0	.0	5.1
7	.0	*	.5	.4	*	.0	1.0		.0	*	1.6	1.3	.1	.0	.0	3.2
8-9	.0	*	.2	.3	*	.0	.5		.0	*	.5	1.0	.1	.0	.0	1.6
10-11	.0	.0	.1	.1	.1	*	.3		.0	.0	.2	.6	.1	*	.0	.9
12	.0	.0	.0	*	*	.0	*		.0	.0	*	.2	.1	.0	.0	.3
13-16	.0	*	*	.1	*	.0	.1		.0	*	*	.2	.1	*	.0	.4
17-19	.0	.0	.0	*	*	.0	*		.0	.0	*	*	.1	.0	.0	.1
20-22	.0	.0	.0	.0	*	.0	*		.0	.0	*	*	.1	*	.0	.1
23-25	.0	.0	.0	*	*	*	*		.0	.0	.0	.0	*	*	*	*
26-32	.0	.0	.0	*	.0	.0	*		.0	.0	.0	*	*	*	*	*
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.9	3.5	1.5	.2	*	8.4		.4	6.0	11.3	5.0	.7	*	23.5	

HGT	E								SE							
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.4	*	.0	.0	.0	.6		.2	.3	*	.0	.0	.0	.0	.5
1-2	.2	2.6	.6	.0	.0	.0	3.5		.1	2.1	.4	.0	.0	.0	.0	2.7
3-4	*	1.2	1.9	.1	.0	.0	3.2		.0	1.1	.9	*	.0	.0	.0	2.0
5-6	*	.3	1.4	.2	*	.0	1.9		*	.2	.6	.1	.0	.0	.0	.9
7	.0	*	.5	.2	*	.0	.7		.0	*	.3	.1	.0	.0	.0	.4
8-9	.0	*	.1	.2	*	.0	.3		.0	*	.1	.1	*	.0	.0	.2
10-11	.0	*	*	.1	*	.0	.2		.0	.0	*	*	*	*	.0	.1
12	.0	.0	.0	*	*	.0	.1		.0	.0	*	*	*	.0	.0	*
13-16	.0	.0	.0	*	*	.0	*		.0	.0	*	*	*	.0	.0	*
17-19	.0	.0	.0	*	*	.0	*		.0	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	*	*	.0	*		.0	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	*		.0	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.5	4.6	.8	.1	.0	10.5		.3	3.8	2.4	.3	.1	*	6.8	

AD-A032 604

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO), WEST AF--ETC(U)
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1-77

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	*	.0	.0	.0	.6	.2	.4	*	.0	.0	.0	.7
1-2	.1	2.4	.5	.0	.0	.0	3.0	.1	2.4	.9	.0	.0	.0	3.5
3-4	*	1.3	1.8	.2	.0	.0	3.4	*	1.6	3.3	.4	.0	.0	5.3
5-6	*	.3	1.5	.4	*	.0	2.2	*	.5	3.1	1.2	.1	.0	4.8
7	.0	.1	.8	.5	.1	.0	1.5	*	.1	1.5	1.4	.3	*	3.3
8-9	.0	*	.3	.3	.1	.0	.7	*	*	.6	1.0	.3	*	1.9
10-11	.0	*	.1	.2	.1	.0	.4	.0	*	.3	1.0	.3	*	1.6
12	.0	*	*	.1	*	*	.1	.0	*	.1	.3	.1	*	.5
13-16	.0	*	*	.2	*	.0	.3	.0	*	.1	.5	.4	.1	1.1
17-19	.0	*	*	*	*	*	.1	.0	*	*	.2	.2	*	.4
20-22	.0	.0	.0	*	*	.0	.1	.0	.0	*	.1	.2	*	.3
23-25	.0	.0	.0	*	*	*	*	.0	.0	*	.1	.1	.0	.2
26-32	.0	.0	.0	*	*	*	*	.0	.0	.0	*	*	*	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.5	5.1	2.0	.4	*	12.4	.4	5.0	9.9	6.3	2.0	.1	23.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.5	*	.0	.0	.0	.6	.1	.2	*	.0	.0	.0	.3	
1-2	.2	1.9	.5	.0	.0	.0	2.6	.1	.9	.1	.0	.0	.0	1.1	
3-4	*	1.0	1.6	.1	.0	.0	2.7	*	.4	.3	*	.0	.0	.7	
5-6	.0	.2	1.1	.4	*	.0	1.7	.0	.1	.2	*	.0	.0	.3	
7	.0	*	.5	.4	.1	*	1.1	.0	*	.1	.1	.0	.0	.2	
8-9	.0	*	.2	.3	.1	.0	.6	.0	.0	*	*	.0	.0	.1	
10-11	.0	*	.1	.3	.1	*	.4	.0	.0	*	*	.0	.0	*	
12	.0	.0	*	.1	*	.2	.3	.0	.0	*	*	.0	.0	*	
13-16	.0	.0	*	.2	.1	*	.3	.0	.0	*	*	.0	.0	*	
17-19	.0	.0	.0	*	.1	*	.1	.0	.0	.0	.0	*	*	*	
20-22	.0	.0	*	*	*	*	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	*	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.6	4.0	1.8	.6	.1	10.5	.2	1.5	.8	.2	*	*	2.7	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	3.1	.1	.0	.0	.0	6.9	
1-2	1.6	17.0	4.8	.0	.0	.0	23.4	
3-4	.2	9.0	15.0	1.4	.0	.0	25.5	
5-6	.1	2.2	11.9	3.9	.2	.0	18.2	
7	*	.4	5.8	4.4	.6	*	11.1	
8-9	*	.1	1.9	3.2	.6	*	5.8	
10-11	*	.1	.8	2.4	.6	*	3.8	
12	.0	*	.2	.7	.4	*	1.3	
13-16	.0	*	.2	1.2	.7	.1	2.2	
17-19	.0	*	*	.2	.4	*	.8	
20-22	.0	.0	.1	.1	.3	*	.5	
23-25	.0	.0	*	.1	.2	*	.3	
26-32	.0	.0	.0	.1	.1	.1	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	32.0	40.7	17.6	4.0	.3	100.0	16500

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.6	3.6	5.7	4.9	3.8	1.9	1.3	.4	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4498	5
6-7	.0	.4	2.4	5.4	6.0	4.1	3.6	1.4	1.6	.5	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	5093	8
8-9	*	.2	.8	3.1	4.2	3.8	3.5	1.8	2.8	.9	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	4314	9
10-11	.0	.2	.3	.9	1.5	1.8	1.7	1.0	1.7	.6	.3	.2	.2	*	.0	.0	.0	.0	.0	.0	2062	10
12-13	.0	.0	.5	.5	.5	.7	.8	.5	1.0	.4	.3	.2	.2	*	.0	.0	.0	.0	.0	.0	1071	11
13-14	.0	*	.0	.2	.3	.3	.4	.2	.5	.2	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	538	13
14-15	.0	.7	1.4	2.1	2.1	1.3	1.2	.5	.9	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	2222	7
TOTAL	1.5	5.0	11.2	16.9	18.5	13.9	12.3	5.8	9.0	2.8	1.5	.8	.7	.1	.0	.0	.0	.0	.0	.0	19798	8
PCT																					100.0	

PERIOD: (PRIMARY) 1868-1973
(OVER-ALL) 1854-1973

TABLE 20

AREA 0021 EAST LONDON
32.55 29.9E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH														
SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
85/86	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.0
83/84	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	.1
81/82	1.5	2.6	1.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	2	.5
79/80	5.2	9.0	8.1	2.3	.5	.0	.1	.0	.0	.0	.0	.0	1618	2.2
77/78	15.8	21.2	19.6	10.6	2.3	.3	.2	.1	.1	.1	.1	.1	4054	6.3
75/76	23.8	26.7	25.6	24.5	10.8	2.2	.6	.1	.2	.9	4.4	12.9	8360	11.2
73/74	25.0	19.2	22.6	27.1	26.4	10.9	2.9	1.8	2.7	5.0	14.3	27.4	11831	15.9
71/72	13.7	9.8	9.8	16.5	25.4	21.7	13.9	8.4	10.4	14.3	24.1	23.7	12132	16.3
69/70	7.0	5.0	4.4	8.5	17.1	27.2	26.9	23.8	22.4	25.7	24.1	15.8	12834	17.3
67/68	3.4	2.6	2.8	4.1	9.0	20.8	25.7	28.9	26.3	26.3	16.4	8.5	10582	14.2
65/66	2.0	1.8	1.8	2.3	4.3	8.5	14.7	19.1	19.6	14.4	8.1	3.6	5974	8.0
63/64	1.5	1.1	2.0	2.3	2.5	4.7	8.8	10.2	12.1	8.7	4.7	1.9	3616	4.9
61/62	.5	.4	.6	.8	1.0	2.3	3.6	4.1	3.9	2.6	1.9	.7	1340	1.8
59/60	.2	.2	.4	.4	.4	.8	1.9	2.1	1.3	1.1	.6	.2	569	.8
57/58	.1	.1	.1	.2	.1	.4	.6	.9	.7	.4	.3	.1	237	.3
55/56	.0	.0	.1	.1	.0	.3	.4	.2	.2	.2	.2	.0	99	.1
53/54	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	23	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	6428	5463	6336	6640	6318	6620	5962	5566	5225	6149	6787	6767	74321	100.0
MEAN	73.9	74.7	74.3	73.0	71.3	69.1	67.7	67.1	67.2	68.0	69.6	71.7	70.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1012	1013	1013	1011	1012	1012	1014	1012	2626
FEB	1013	1012	1013	1014	1012	1012	1013	1014	1013	2287
MAR	1016	1015	1016	1016	1015	1015	1016	1016	1016	2673
APR	1016	1017	1016	1017	1015	1016	1016	1017	1016	2696
MAY	1018	1018	1019	1017	1017	1017	1018	1019	1018	2905
JUN	1020	1020	1020	1021	1019	1020	1020	1021	1020	3167
JUL	1022	1022	1022	1021	1021	1021	1022	1022	1022	3283
AUG	1020	1021	1021	1020	1020	1019	1020	1020	1020	3164
SEP	1019	1019	1020	1019	1019	1017	1019	1018	1019	2960
OCT	1016	1016	1017	1018	1016	1017	1017	1018	1017	3141
NOV	1016	1016	1016	1016	1015	1015	1016	1016	1016	3103
DEC	1014	1014	1015	1015	1013	1014	1014	1015	1014	2985
ANN	1017	1017	1017	1017	1016	1016	1017	1018	1017	34930
OBS	5898	1780	6769	4449	5763	1712	6583	1976		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	996	1001	1004	1009	1013	1015	1020	1023	1026
FEB	996	1001	1005	1010	1013	1017	1020	1024	1030
MAR	999	1003	1007	1012	1016	1019	1025	1028	1032
APR	997	1002	1006	1012	1016	1020	1025	1028	1034
MAY	996	1002	1007	1014	1018	1022	1027	1030	1034
JUN	996	1002	1009	1016	1020	1024	1031	1034	1039
JUL	998	1005	1011	1018	1022	1026	1032	1035	1039
AUG	996	1004	1010	1015	1020	1025	1032	1036	1040
SEP	995	1004	1008	1014	1019	1024	1030	1033	1039
OCT	996	1002	1006	1012	1017	1021	1027	1030	1038
NOV	995	1002	1006	1012	1016	1020	1026	1031	1035
DEC	996	1002	1006	1010	1014	1017	1022	1025	1030

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 185A-1973

JANUARY

AREA 0022 DURBAN
28.55 33.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.3	2.2	1.8	.0	.0	.0	.0	6.3	1.1	6.5	.6	.0	.6	.0	85.6
NE	1.4	.8	.3	.0	.0	.0	.0	2.4	.9	2.7	.5	.0	.5	.0	93.3
E	1.4	1.6	1.4	.0	.0	.0	.0	4.5	1.2	2.1	.5	.0	.4	.0	91.6
SE	3.0	2.7	1.0	.0	.0	.0	.2	6.9	2.0	2.7	.3	.0	.1	.0	86.5
S	6.0	4.1	1.8	.0	.0	.0	.2	11.9	3.8	2.2	.8	.0	.3	.2	81.9
SW	7.8	3.4	2.0	.0	.0	.0	.0	13.1	4.7	2.6	1.9	.0	1.0	.0	77.5
W	9.2	1.6	2.8	.0	.0	.0	.0	13.5	2.8	4.4	3.2	.0	1.6	.0	74.5
NW	3.5	3.1	2.8	.0	.0	.0	.0	9.4	7.9	4.3	1.6	.0	.0	.0	76.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.5	.0	.0	.0	.0	90.3
TOT PCT	3.3	2.2	1.2	.0	.0	.0	.1	6.7	2.1	3.1	.7	.0	.4	*	87.4
TOT OBS:	3135														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	4.2	2.2	1.7	.0	.0	.0	.1	8.2	2.9	7.5	.4	.0	.3	.0	81.8
0600	4.4	2.9	.9	.0	.0	.0	.0	8.1	2.3	.3	.5	.0	.6	.0	88.5
1200	1.6	1.1	1.1	.0	.0	.0	.1	3.9	1.5	.0	1.2	.0	.6	.0	92.7
1800	2.7	2.7	1.3	.0	.0	.0	.0	6.5	2.2	4.9	.6	.0	.4	.1	85.9
TOT PCT	3.2	2.2	1.2	.0	.0	.0	.1	6.7	2.2	3.0	.7	.0	.5	*	87.4
TOT OBS:	3224														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21
N	.5	3.9	4.3	1.0	*	*		9.8	12.7		12.2	10.5	15.0	9.8	10.8	5.5	6.2	6.7
NE	.8	9.2	11.6	2.7	.2	*		24.5	13.3		27.4	21.3	21.0	21.8	28.8	26.1	26.8	22.6
E	.9	8.9	5.1	.4	*	.0		15.4	9.9		15.0	14.5	12.9	14.3	15.0	16.6	17.9	17.1
SE	.8	7.9	6.5	1.5	.1	.0		16.8	12.0		18.3	15.2	14.1	15.1	17.9	16.4	19.1	18.6
S	.7	5.5	7.7	3.3	.6	.1		17.9	15.4		15.4	18.9	16.6	20.6	16.6	19.5	17.4	19.4
SW	.3	2.9	4.4	1.8	.3	.1		9.9	15.5		6.5	11.8	11.2	12.7	6.8	11.0	8.8	10.9
W	.2	1.2	.6	.2	.0	.0		2.3	10.1		2.2	3.8	3.6	2.6	1.3	1.9	1.0	2.4
NW	.2	1.3	.5	.1	.0	.0		2.1	8.9		1.8	2.4	3.6	2.0	1.7	1.7	1.4	1.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		1.2	1.7	2.0	1.0	1.1	1.3	1.3	1.3
TOT OBS	312	2185	2174	592	68	9	5340		12.7		592	460	948	678	630	529	1030	473
TOT PCT	5.8	40.9	40.7	11.1	1.3	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	00					03	06	12	18	
N	1.9	5.1	2.6	.2	*		9.8	12.7	11.5	12.8	8.4	6.3		
NE	3.6	13.7	6.5	.7	.1		24.5	13.3	24.7	21.4	27.6	25.5		
E	4.6	8.9	1.8	.1	.0		15.4	9.9	14.8	13.5	15.7	17.7		
SE	3.8	9.3	3.3	.5	*		16.8	12.0	16.9	14.5	17.2	18.9		
S	2.7	7.7	5.6	1.6	.2		17.9	15.4	16.9	18.2	17.9	18.0		
SW	1.3	4.5	3.2	.8	.1		9.9	15.5	8.8	11.8	8.7	9.5		
W	.9	1.0	.3	*	.0		2.3	10.1	2.9	3.2	1.6	1.4		
NW	.7	1.1	.2	*	.0		2.1	8.9	2.1	3.0	1.7	1.3		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.4						1.4	.0	1.4	1.6	1.2	1.3		
TOT OBS	1113	2741	1256	204	26	5340		12.7	1052	1626	1159	1503		
TOT PCT	20.8	51.3	23.5	3.8	.5		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1856-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.4	5.9	40.6	40.1	10.6	1.2	.1	12.4	100.0	1052
0600	1.6	4.7	43.5	38.4	10.3	1.4	.1	12.3	100.0	1026
1200	1.2	3.5	37.9	43.9	11.8	1.3	.3	13.4	100.0	1159
1800	1.3	3.9	40.7	41.2	11.6	1.2	.1	12.9	100.0	1503
TOT	74	238	2185	2174	592	68	9	12.7		5340
PCT	1.4	4.5	40.9	40.7	11.1	1.3	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.1	2.6	2.8	1.4		3.5
NE	12.0	6.1	6.5	2.6		3.5
E	5.5	4.3	4.0	2.0		3.8
SE	4.2	3.9	4.6	4.6		4.8
S	2.4	2.8	4.9	5.1		5.5
SW	1.1	1.2	2.3	2.7		3.7
W	.3	.5	.6	.4		5.1
NW	.6	.3	.8	.5		4.9
VAR	.0	.0	.0	.0		.0
CALM	.6	.3	.1	.2		3.4
TOT OBS	684	472	572	426	2154	4.3
TOT PCT	31.8	21.9	26.6	19.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	*	.1	1.0	.9	.5	.2	.1	.0	.0	9.1	
*	*	*	1.1	2.3	1.2	.4	.2	.1	.2	21.7	
.0	.0	.3	.9	1.8	.7	.2	.2	.0	.1	11.7	
.1	.0	.1	1.6	2.9	1.2	.9	*	.0	*	10.5	
*	*	.2	2.4	2.6	1.7	.8	.1	.0	.1	7.2	
.1	.0	.1	1.1	1.4	.9	.5	*	.1	.1	3.0	
.0	.0	*	.2	.2	.2	.1	.1	.0	.0	.9	
.0	.0	*	.4	.3	.1	*	*	.0	.0	1.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	*	.1	.1	.0	.0	.0	.0	1.0	
.6	2	20	185	273	143	66	16	5	10	1428	2154
.3	.1	.9	8.6	12.7	6.6	3.1	.7	.2	.5	66.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	.5	.6	.7	.7	.7	.7	.7	.7
= OR >3500	1.0	1.3	1.5	1.5	1.5	1.5	1.5	1.5
= OR >2500	3.1	4.3	4.6	4.6	4.6	4.6	4.6	4.6
= OR >2000	8.0	10.6	11.2	11.2	11.2	11.2	11.2	11.2
= OR >1000	16.8	22.7	23.8	23.8	23.8	23.8	23.8	23.8
= OR >500	21.5	30.7	32.1	32.2	32.3	32.3	32.3	32.3
= OR >300	21.9	31.6	33.0	33.1	33.2	33.2	33.2	33.2
= OR >150	21.9	31.6	33.1	33.2	33.3	33.3	33.3	33.3
= OR >0	21.9	31.7	33.4	33.5	33.6	33.6	33.6	33.6
TOTAL	483	700	737	740	741	741	741	741

TOTAL NUMBER OF OBS: 2206

PCT FREQ NH <5/8: 66.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
9.9	18.0	15.2	13.2	9.3	5.2	7.1	7.1	14.7	.2	2407

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1956-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	*	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	.0	.0	.0	.0	.2	
	TOT %	*	.1	*	*	.1	*	*	.0	.0	.0	.3	
1<2	PCP	*	*	*	*	.0	*	.0	.0	.0	.0	.1	
	NO PCP	*	.1	*	*	*	*	.0	.0	.0	.0	.3	
	TOT %	.1	.1	.1	*	*	*	.0	.0	.0	.0	.4	
2<5	PCP	.1	.1	.1	.1	.2	.2	.0	*	.0	.0	.8	
	NO PCP	*	.2	.1	.1	.2	.3	.0	.0	.0	.0	.8	
	TOT %	.1	.2	.2	.2	.4	.5	.0	*	.0	*	1.6	
5<10	PCP	.4	.4	.5	.9	1.3	.7	.2	.2	.0	.0	4.6	
	NO PCP	1.9	5.4	2.8	3.8	4.0	3.0	.7	.4	.0	.2	22.1	
	TOT %	2.2	5.9	3.2	4.8	5.3	3.6	.9	.6	.0	.2	26.7	
10+	PCP	.2	.1	.1	.1	.3	.1	.1	.0	.0	.0	1.1	
	NO PCP	8.6	20.2	11.4	12.1	10.3	3.9	1.0	1.4	.0	.8	69.8	
	TOT %	8.9	20.3	11.6	12.2	10.6	4.0	1.1	1.4	.0	.8	70.9	
TOT OBS													
TOT PCT													
		11.3	26.5	15.0	17.2	16.5	8.3	2.0	2.0	.0	1.0	100.0	3130

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	22+	*	*	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.1	*	*	.1	.1	.1	.0	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	4-10	*	*	*	*	*	*	.0	*	.0	.0	.2	
	11-21	.0	.1	.0	.0	*	.0	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	TOT %	*	.1	*	*	.1	.1	*	*	.0	.0	.4	
1<2	0-3	.0	*	*	*	*	.0	.0	.0	.0	.0	.1	
	4-10	*	*	.0	.0	*	.1	.0	*	.0	.0	.2	
	11-21	*	*	*	*	.0	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	*	.1	.1	.1	.0	*	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.1	
	4-10	.2	.2	.1	*	.1	.2	.0	*	.0	.0	.9	
	11-21	*	.2	.1	.1	.2	.3	*	*	.0	.0	1.0	
	22+	*	.1	*	.1	.6	.1	.0	.0	.0	.0	.9	
	TOT %	.3	.4	.2	.2	1.0	.7	*	.1	.0	*	2.9	
5<10	0-3	.1	.1	.1	.1	.4	.1	*	*	.0	.2	1.1	
	4-10	.8	1.8	1.4	1.1	1.2	1.1	.3	.3	.0	.0	8.1	
	11-21	.8	2.5	1.1	1.9	2.3	1.7	.3	.2	.0	.0	10.7	
	22+	.3	1.0	.2	.8	1.3	.6	.1	*	.0	.0	4.5	
	TOT %	2.0	5.4	2.8	3.9	5.2	3.6	.8	.5	.0	.2	24.4	
10+	0-3	.4	.6	.7	.5	.3	.1	.2	.2	.0	1.0	3.9	
	4-10	3.0	7.6	7.7	6.5	3.9	1.3	.7	.9	.0	.0	31.6	
	11-21	3.9	9.3	3.7	4.6	4.8	2.2	.3	.3	.0	.0	29.1	
	22+	.8	2.0	.2	.9	1.9	.8	*	*	.0	.0	6.7	
	TOT %	8.1	19.5	12.3	12.5	10.9	4.5	1.2	1.5	.0	1.0	71.4	
TOT OBS													
TOT PCT													
		10.5	25.5	15.4	16.8	17.4	9.1	2.0	2.1	.0	1.2	100.0	4094

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PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1856-1973AREA 0022 DURBAN
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <5/8 ANY HGT	TOTAL DBS
00003	.7	.0	1.4	9.3	14.5	7.5	3.6	1.1	.2	.5	39.0	61.0	557
06009	.2	.2	.7	10.0	11.4	7.0	3.0	.9	.5	.4	34.2	65.8	571
12015	.2	.0	.2	5.0	9.1	5.1	3.1	.8	.2	.6	24.2	75.8	645
18021	.2	.2	1.3	8.5	13.5	5.8	2.3	.0	.2	.2	32.1	67.9	555
TOT	7	2	20	188	280	147	70	16	6	10	746	1582	2328
PCT	.3	.1	.9	8.1	12.0	6.3	3.0	.7	.3	.4	32.0	68.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.3	.2	.2	2.8	24.1	72.2	879
06009	.3	.5	.5	3.3	26.4	69.0	1171
12015	.6	.6	.6	2.8	19.1	76.3	991
18021	.4	.3	.9	2.4	27.8	68.3	1142
TOT	17	17	24	119	1027	2979	4183
PCT	.4	.4	.6	2.8	24.6	71.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.8	2.6	13.7	27.4	58.9	533
06009	.2	1.1	12.8	23.2	64.0	539
12015	.2	.3	6.6	18.9	74.5	608
18021	.2	1.9	12.0	21.9	66.2	526
TOT	7	32	245	501	1460	2206
PCT	.3	1.5	11.1	22.7	66.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	*	.0	.0	6	.3
85/89	.0	.0	.0	.1	.9	1.0	.1	.0	48	2.1
80/84	.0	.0	.0	.4	2.6	7.1	12.2	3.3	596	25.6
75/79	.0	.0	.0	1.2	5.6	17.9	22.1	11.0	1348	57.9
70/74	.0	.0	*	.4	3.1	3.4	4.2	2.3	312	13.4
65/69	.0	.0	.0	.0	.0	.1	.3	.3	18	.8
TOTAL	0	0	1	52	289	687	905	394	2328	100.0
PCT	.0	.0	*	2.2	12.4	29.5	38.9	16.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.1	.1	*	*	.1	.0	.0	.0	.0
85/89	.3	.9	.3	.2	.1	.1	*	.1	.0	*
80/84	5.0	8.6	3.9	3.1	2.2	1.2	.4	.6	.0	.6
75/79	6.1	16.2	9.6	10.5	8.7	4.1	.9	1.1	.0	.6
70/74	.4	1.6	1.1	2.9	4.4	2.3	.4	.3	.0	.1
65/69	.0	*	*	.1	.3	.2	.1	*	.0	.0
TOT	11.9	27.5	15.1	16.7	15.7	7.9	1.8	2.1	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	86	82	80	76	71	67	64	75.8	1066
06009	91	85	82	77	72	69	66	77.4	1615
12015	93	89	85	79	73	70	63	78.8	1163
18021	88	83	81	77	71	68	65	76.4	1495
TOT	93	86	82	77	71	68	63	77.1	5339

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	1.2	7.4	24.2	41.9	25.4	82	571
06009	.0	2.3	14.5	29.9	38.3	15.0	80	608
12015	.0	4.4	17.9	34.1	34.5	9.1	77	615
18021	.0	.9	9.4	29.3	41.3	19.2	82	588
TOT	0	53	295	702	927	405	80	2382

PERIOD: (PRIMARY) 1920-1973
(OVER-ALL) 1856-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	*	*	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	*	.1	*	7	.0	.2
9/10	.0	.0	.0	.0	.1	*	.1	.1	.0	13	.0	.4
7/8	.0	.0	*	*	.2	.5	.4	.1	.0	38	.0	1.3
6	.0	.0	*	.1	.1	.4	.3	.0	.0	29	.0	1.0
5	.0	.0	.1	.1	.3	.8	.3	*	.0	46	*	1.5
4	.0	.0	*	.1	1.1	1.4	.2	.1	.0	87	.1	2.9
3	.0	.0	*	.3	1.4	1.7	.3	*	.0	113	*	3.8
2	.0	.0	.0	.8	3.5	3.0	.1	.0	.0	217	.1	7.3
1	.0	*	.1	1.9	7.5	2.5	.1	.0	.0	352	.0	12.0
0	.0	.0	.1	3.9	11.4	3.0	*	.0	.0	539	.1	18.3
-1	.0	*	.2	4.9	9.7	1.4	*	.0	.0	479	.1	16.3
-2	.0	.0	.8	4.8	5.9	.7	.0	.0	.0	357	*	12.2
-3	.0	.0	.6	3.8	3.1	.3	.0	.0	.0	229	.1	7.8
-4	.0	.0	.9	3.1	1.7	.2	.0	.0	.0	171	.0	5.8
-5	.0	*	.9	2.3	1.0	.1	.0	.0	.0	125	.0	4.3
-6	.0	.1	.3	.9	.2	.0	.0	.0	.0	44	.0	1.5
-7/-8	.0	.1	.7	.9	.2	.0	.0	.0	.0	56	*	1.9
-9/-10	.0	*	.3	.2	.1	.0	.0	.0	.0	17	*	.5
-11/-13	*	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	1	10	155	823	1391	471	59	13	1	2924	20	2904
PCT	*	.3	5.3	28.1	47.6	16.1	2.0	.4	*	100.0	.7	99.3

PERIOD: (OVER-ALL) 1953-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6	.2	.5	.0	.0	.0	.0	.0	.7
1-2	.2	2.6	.8	.0	.0	.0	3.5	.4	4.7	2.0	.0	.0	.0	.0	7.1
3-4	.0	1.3	3.0	.1	.0	.0	4.4	.0	3.0	5.2	.8	.0	.0	.0	9.1
5-6	.0	.5	2.0	.5	.0	.0	3.0	.0	.6	4.3	.8	.0	.0	.0	5.7
7	.0	.0	.9	.5	.0	.0	1.4	.0	.0	1.8	.8	.0	.0	.0	2.6
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.1	.4	1.0	.3	.0	.0	1.8
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.6	.2	.0	.0	.9
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	*	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.7	6.9	1.7	.0	.0	13.7	.5	8.9	13.8	4.1	.5	.0	.0	27.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.1	.0	.0	.0	.7	.1	.4	.1	.0	.0	.0	.0	.6
1-2	.3	5.7	1.2	.0	.0	.0	7.2	.2	3.7	.9	.0	.0	.0	.0	4.8
3-4	.0	2.0	1.9	.1	.0	.0	4.0	.0	2.1	2.3	.4	.0	.0	.0	4.8
5-6	.0	.5	1.2	.2	.0	.0	1.8	.0	.3	1.9	.2	.0	.0	.0	2.5
7	.0	.1	.4	.2	.0	.0	.7	.0	.1	.6	.3	*	.0	.0	1.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.2	.2	.0	.0	.0	.4
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.4	.1	.0	.0	.5
12	.1	.0	.0	.0	.0	.0	.1	*	.0	*	*	.0	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	*	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	8.7	5.1	.5	.0	.0	14.7	.4	6.7	6.1	1.6	.3	.0	.0	14.9

PERIOD: (OVER-ALL) 1963-1973

JANUARY

AREA 0022 DURBAN
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.2
1-2	.2	2.8	.9	.0	.0	.0	3.9	.0	1.6	.5	.0	.0	.0	2.0
3-4	.0	1.3	3.0	.1	.0	.0	4.4	.0	.3	1.3	.0	.0	.0	1.6
5-6	.0	.0	2.3	.9	.1	.0	3.2	.0	.3	1.3	.3	.0	.0	1.9
7	.0	.0	1.0	.5	.1	.0	1.7	.0	.0	.4	.3	.0	.0	.6
8-9	.0	.1	.4	.6	.1	.0	1.2	.0	.0	.1	.3	.0	.0	.4
10-11	.0	.0	.1	.3	.1	.0	.4	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.4	7.8	2.7	.3	.0	15.6	.2	2.4	3.6	1.3	.0	.0	7.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.1	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.4	
1-2	.1	.7	.2	.0	.0	.0	1.0	.1	.8	.0	.0	.0	.0	.8	
3-4	.0	.1	.1	.0	.0	.0	.2	.0	.4	.3	.0	.0	.0	.6	
5-6	.0	.0	.0	.1	.0	.0	.1	.0	.1	.2	.1	.0	.0	.3	
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.1	.0	.0	.3	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.9	.4	.3	.0	.0	1.7	.3	1.4	.6	.1	.0	.0	2.4	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	2.5	.1	.0	.0	.0	5.9	
1-2	1.7	22.6	6.3	.0	.0	.0	30.6	
3-4	.0	10.4	16.8	1.5	.0	.0	28.7	
5-6	.0	2.3	12.8	3.0	.1	.0	18.2	
7	.0	.1	5.3	2.7	.1	.0	8.3	
8-9	.1	.2	1.4	2.4	.3	.0	4.4	
10-11	.0	.0	.6	1.5	.3	.0	2.5	
12	.1	.0	.0	.6	.1	.0	.7	
13-16	.0	.0	.1	.2	.1	.0	.5	
17-19	.0	.0	.0	.1	.1	.0	.1	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.1	38.1	43.6	12.1	1.1	.0	100.0	1503

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	6.2	10.2	7.5	4.8	1.5	.9	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	623	4
6-7	.0	.3	5.3	8.0	6.7	4.1	1.9	1.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	530	6
8-9	.0	.3	1.3	2.9	4.1	2.6	1.6	1.6	1.4	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	315	8
10-11	.0	.2	.5	1.0	1.1	1.3	.8	.5	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	114	8
12-13	.0	.0	.6	.6	.4	.7	.7	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	8
13-15	.0	.0	.0	.1	.5	.1	.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	9
15-17	.7	.4	2.1	2.7	2.2	1.5	.9	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	212	6
TOTAL	35	140	378	434	377	224	140	78	66	20	7	2	0	0	0	0	0	0	0	1901	6
PCT	1.8	7.4	19.9	22.8	19.8	11.8	7.4	4.1	3.5	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1855-1973

AREA 0022 DURBAN
28.55 33.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.6	1.3	1.1	.0	.0	.0	.0	5.0	1.1	4.7	.4	.0	1.3	.3	88.7
NE	1.2	1.2	.4	.0	.0	.0	.0	2.7	1.0	4.6	.7	.0	1.6	*	89.6
E	.5	1.2	.2	.0	.0	.0	.0	2.0	2.8	1.3	.0	.0	.1	.0	93.8
SE	2.7	2.4	1.0	.0	.0	.0	.0	6.1	2.8	1.7	.4	.0	.2	.0	89.3
S	4.0	3.9	1.8	.0	.0	.0	.0	9.4	4.6	1.9	.4	.0	.7	.0	82.9
SW	11.3	8.9	2.1	.0	.0	.0	.0	22.3	6.8	5.2	.5	.0	.6	.5	66.2
W	8.3	9.5	1.8	.0	.0	.0	.0	19.6	6.5	3.6	.0	.0	.0	.0	71.4
NW	7.6	2.5	1.3	.0	.0	.0	.0	11.5	.5	8.9	.0	.0	.0	.0	85.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	3.8	3.8	.0	.0	.0	.0	92.3
TOT PCT	3.0	2.6	1.0	.0	.0	.0	.0	6.5	2.9	3.1	.4	.0	.8	.1	86.9
TOT OBS:	2720														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.5	2.9	1.1	.0	.0	.0	.0	7.5	3.2	7.0	.5	.0	.5	.0	82.8
0600	3.0	4.0	1.3	.0	.0	.0	.0	8.1	3.1	.5	.4	.0	1.0	.0	87.1
1200	2.5	2.4	.8	.0	.0	.0	.0	5.6	2.0	.1	.4	.0	.8	.1	90.8
1800	3.3	1.4	.6	.0	.0	.0	.0	5.3	2.9	5.6	.3	.0	.9	.1	85.7
TOT PCT	3.1	2.7	1.0	.0	.0	.0	.0	6.7	2.8	3.1	.4	.0	.8	.1	86.7
TOT OBS:	2807														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.5	3.7	.8	.1	.0		8.6	12.3		8.1	12.9	14.6	8.6	8.0	5.0	4.1	7.6
NE	.9	9.8	11.2	2.1	.2	.0		24.1	12.7		25.7	24.0	19.0	21.9	25.9	22.8	27.5	27.8
E	.9	9.2	6.8	.4	*	*		17.4	10.3		17.3	15.6	14.3	17.1	17.4	21.6	18.8	18.5
SE	.8	8.7	6.7	1.0	.1	.0		17.3	11.6		19.4	14.1	15.8	17.5	18.2	16.2	19.6	15.3
S	.6	6.3	8.1	3.1	.6	*		18.8	15.1		17.1	17.8	19.1	18.4	19.1	21.5	19.6	17.3
SW	.3	2.5	4.0	1.5	.5	*		8.9	15.5		7.5	8.2	11.0	9.7	7.9	9.9	7.6	8.4
W	.2	.9	.7	.2	*	.0		2.0	11.2		1.3	3.1	2.2	2.9	1.1	1.4	1.5	2.9
NW	.2	.9	.4	*	.0	.0		1.5	8.3		1.7	2.0	2.5	2.1	1.0	.9	.6	.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		1.9	2.3	1.5	1.8	1.3	.7	.6	1.7
TOT OBS	262	1901	1889	418	69	3	4542		12.5		529	342	818	613	555	425	847	413
TOT PCT	5.8	41.9	41.6	9.2	1.5	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.8	4.6	2.0	.1	*			8.6	12.3		10.0	12.0	6.7	5.2
NE	4.2	13.4	5.9	.8	*			24.1	12.7		25.0	20.2	24.6	27.5
E	4.7	10.7	1.9	.2	*			17.4	10.3		16.6	15.5	19.2	18.7
SE	3.6	10.1	3.0	.5	*			17.3	11.6		17.3	16.5	17.3	18.2
S	2.5	9.2	5.3	1.7	.1			18.8	15.1		17.3	18.8	20.1	18.9
SW	1.4	3.8	2.6	1.0	.1			8.9	15.5		7.8	10.5	8.8	7.8
W	.7	.9	.4	.1	*			2.0	11.2		2.0	2.5	1.3	2.0
NW	.7	.7	.1	*	.0			1.5	8.3		1.8	2.3	1.0	.7
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.4							1.4	.0		2.1	1.6	1.0	1.0
TOT OBS	951	2424	964	191	12	4542			12.5		871	1431	980	1260
TOT PCT	20.9	53.4	21.2	4.2	.3			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	2.1	4.7	42.3	41.7	7.7	1.6	.0	12.1	100.0	871	
0600	1.6	5.2	43.5	38.8	9.2	1.7	.1	12.1	100.0	1431	
1200	1.0	3.4	41.0	43.6	9.5	1.4	.1	12.9	100.0	980	
1800	1.0	4.0	40.4	43.2	10.1	1.3	.1	12.8	100.0	1250	
TOT	63	199	1901	1889	418	69	3	12.5		4542	
PCT	1.4	4.4	41.9	41.6	9.2	1.5	.1		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	1.9	2.8	1.1		3.7
NE	12.2	5.5	4.7	2.0		3.0
E	7.0	4.0	4.0	1.5		3.5
SE	5.3	5.0	4.9	2.5		4.1
S	4.3	4.6	6.4	4.8		4.8
SW	1.1	1.1	2.0	3.4		5.9
W	.5	.2	.2	.5		4.9
NW	.3	.5	.5	.2		4.5
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.3	.1		2.6
TOT OBS	678	440	496	313	1927	4.0
TOT PCT	35.2	22.8	25.7	16.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.1	.7	1.0	.4	.3	.1	*	*	6.9	
NE	.1	.0	.0	1.0	1.7	.9	.4	.1	.1	.2	20.0	
E	.0	.0	.2	.8	1.5	.8	.3	.0	.0	.1	12.7	
SE	.0	.1	.3	1.7	1.8	.9	.4	.1	.0	.1	12.4	
S	.1	*	.5	2.5	3.3	1.3	.5	*	.1	.0	11.9	
SW	.1	*	.5	2.0	1.4	.6	.1	*	.1	.0	3.1	
W	.0	*	.0	.3	.2	.0	*	.0	.0	.0	.7	
NW	.0	*	*	.1	.2	.1	.1	*	.0	.0	1.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	1.1	
TOT OBS	5	3	31	176	214	94	41	6	5	7	1345	1927
TOT PCT	.3	.2	1.6	9.1	11.1	4.9	2.1	.3	.3	.4	69.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
* OR >6500	.5	.6	.6	.6	.6	.6	.6	.6
* OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
* OR >3500	2.8	3.0	3.1	3.1	3.1	3.1	3.1	3.1
* OR >2000	6.8	7.9	8.0	8.1	8.1	8.1	8.1	8.1
* OR >1000	14.9	18.3	18.9	19.0	19.0	19.0	19.0	19.0
* OR >600	20.2	26.7	27.8	28.0	28.0	28.1	28.1	28.1
* OR >300	20.8	28.0	29.3	29.6	29.6	29.7	29.7	29.7
* OR >150	20.8	28.1	29.5	29.7	29.7	29.9	29.9	29.9
* OR >0	20.9	28.3	29.7	30.0	30.0	30.1	30.1	30.1
TOTAL	410	555	583	588	588	591	591	591

TOTAL NUMBER OF OBS: 1962

PCT FREQ NH <5/8: 69.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	10.4	19.0	16.6	13.9	9.1	7.0	6.6	5.8	11.5	2086

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 PERIOD: (PRIMARY) 1917-1973
 (OVER-ALL) 1855-1973

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TABLE 8

 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	*	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	*	.0	.0	*	*	.0	.0	.0	.0	.1	
	NO PCP	*	*	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	*	.1	.0	.0	*	.1	.0	.0	.0	.0	.2	
1<2	PCP	*	*	*	*	*	.1	.1	*	.0	.0	.2	
	NO PCP	.1	.4	.1	*	*	*	.0	.0	.0	.0	.6	
	TOT %	.1	.4	.1	*	*	.1	.1	*	.0	.0	.8	
2<5	PCP	.0	.1	*	.2	.2	.4	*	.0	.0	.0	1.0	
	NO PCP	.0	.1	.1	.1	.2	.2	.0	.0	.0	.0	.7	
	TOT %	.0	.2	.1	.3	.4	.6	*	.0	.0	.0	1.7	
5<10	PCP	.3	.3	.2	.7	1.0	.8	.2	.1	.0	.0	3.5	
	NO PCP	1.5	5.2	3.0	3.1	3.5	2.0	.6	.2	.0	.0	19.5	
	TOT %	1.8	5.5	3.2	3.8	4.5	2.8	.8	.3	.0	.0	22.7	
10+	PCP	.1	.2	.1	.2	.5	.3	*	*	.0	.0	1.5	
	NO PCP	7.2	18.8	13.5	13.9	13.3	3.5	.6	1.1	.0	1.0	72.9	
	TOT %	7.2	19.0	13.6	14.1	13.8	3.9	.7	1.1	.0	1.0	74.4	
TOT OBS 2716													
TOT PCT		9.2	25.2	17.1	16.3	18.8	7.5	1.5	1.4	.0	1.0	100.0	

TABLE 9

 PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
 WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	22+	*	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	*	*	.0	*	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	22+	.0	*	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	*	.1	.0	.0	*	.1	.0	.0	.0	*	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.2	*	.0	*	*	*	*	.0	.0	.3	
	11-21	*	.1	.0	*	*	.1	.1	.0	.0	.0	.3	
	22+	.0	*	.1	*	.1	*	*	.0	.0	.0	.2	
	TOT %	.1	.3	.1	*	.1	.1	.1	*	.0	.0	.8	
2<5	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	*	*	*	.1	*	.2	.1	.0	.0	.0	.5	
	11-21	*	.2	.1	.1	.2	.3	*	.0	.0	.0	.9	
	22+	.0	.0	*	.1	.3	.3	*	.0	.0	.0	.6	
	TOT %	.1	.3	.2	.3	.5	.7	.1	.0	.0	.0	2.1	
5<10	0-3	.1	.1	.1	.2	*	.1	*	*	.0	.0	.7	
	4-10	.4	1.8	1.1	1.2	1.1	.5	.3	.1	.0	.0	6.5	
	11-21	.9	2.4	1.4	1.4	1.9	1.3	.2	.1	.0	.0	9.5	
	22+	.2	.5	.1	.4	1.1	.7	.1	.0	.0	.0	3.2	
	TOT %	1.6	4.9	2.7	3.3	4.1	2.6	.7	.2	.0	.0	20.0	
10+	0-3	.4	.5	.7	.6	.5	.2	.1	.2	.0	1.1	4.3	
	4-10	3.0	8.2	8.3	7.6	4.6	1.7	.5	.7	.0	.0	34.5	
	11-21	3.1	8.9	5.2	5.4	5.8	2.2	.3	.3	.0	.0	31.2	
	22+	.6	1.5	.2	.7	2.8	.8	*	*	.0	.0	6.7	
	TOT %	7.2	19.2	14.4	14.2	13.7	4.9	.9	1.2	.0	1.1	76.7	
TOT OBS 3498													
TOT PCT		8.9	24.7	17.3	17.8	18.5	8.4	1.8	1.4	.0	1.1	100.0	

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1854-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.6	.4	1.6	9.4	11.1	4.1	2.9	.2	.0	.6	30.9	69.1	488
06009	.0	.0	1.7	11.2	11.8	4.6	1.4	.2	.4	.2	31.5	68.5	517
12015	.0	.2	1.8	7.0	8.7	3.9	2.1	.7	.4	.2	25.0	75.0	561
18021	.4	.0	1.3	7.7	11.1	6.9	2.1	.0	.2	.4	30.2	69.8	467
TOT	5	3	33	179	216	98	43	6	5	7	595	1438	2033
PCT	.2	.1	1.6	8.8	10.6	4.8	2.1	.3	.2	.3	29.3	70.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.1	.8	2.0	17.8	79.2	749
06009	.2	.0	1.0	2.3	22.7	73.8	1026
12015	.1	.5	.7	2.0	17.2	79.5	843
18021	.1	.3	.9	1.9	23.2	73.6	968
TOT	5	8	31	74	736	2732	3586
PCT	.1	.2	.9	2.1	20.5	76.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.6	2.9	13.4	18.7	67.9	476
06009	.0	2.2	14.8	18.2	66.9	499
12015	.0	1.8	10.1	15.9	74.0	542
18021	.4	1.6	10.1	21.1	68.8	445
TOT	5	42	238	360	1364	1962
PCT	.3	2.1	12.1	18.3	69.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.3	.1	.1	.0	9	.5
85/89	.0	.0	.1	.2	.4	1.0	.5	.2	45	2.3
80/84	.0	.0	.0	.6	3.2	8.8	14.2	4.2	600	30.9
75/79	.0	.0	.1	1.2	8.0	16.1	18.9	8.6	1029	53.0
70/74	.0	.0	.1	.8	3.4	2.4	2.5	2.9	234	12.0
65/69	.0	.0	.0	.0	.1	.1	.6	.5	25	1.3
TOTAL	0	0	4	54	297	552	716	319	1942	100.0
PCT	.0	.0	.2	2.8	15.3	28.4	36.9	16.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.2	.*	.0	.1	.0	.0	.0	.0	.0
.4	.8	.7	.1	.1	.1	.0	.1	.0	.0
4.2	9.2	5.3	4.7	4.3	1.6	.4	.8	.0	.4
4.4	12.6	9.3	10.5	11.3	3.2	.6	.5	.0	.6
.2	.7	.8	3.2	4.7	2.0	.3	.1	.0	.1
.0	.1	.1	.1	.4	.7	.1	.0	.0	.0
9.4	23.6	16.1	18.7	20.8	7.5	1.4	1.4	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	82	81	77	71	68	65	76.5	883
06009	91	86	83	78	71	67	64	77.8	1429
12015	92	88	85	79	73	70	65	79.3	977
18021	89	83	82	77	72	68	63	77.1	1274
TOT	92	86	83	78	72	68	63	77.7	4542

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.0	11.2	25.4	39.1	22.3	81	507
06009	.0	3.0	15.7	26.4	36.4	18.5	80	497
12015	.0	5.8	20.8	33.6	30.3	9.5	76	518
18021	.0	1.4	12.9	26.5	42.3	16.8	81	487
TOT	0	62	306	563	742	336	80	2009

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	TOT	W FOG	WD FOG
	64	68	72	76	80	84	88	92			
11/13	.0	.0	.0	*	.0	*	*	.1	5	.0	.2
9/10	.0	.0	.0	*	.2	*	*	.1	9	.0	.3
7/8	.0	.0	.0	.1	.2	.3	.3	.1	25	.0	1.0
6	.0	.0	.0	.0	.1	.2	.2	*	12	.0	.5
5	.0	.0	*	*	.2	.6	.3	.1	34	.0	1.3
4	.0	.0	.0	.1	.4	.9	.6	.0	53	.0	2.1
3	.0	.0	.0	.3	1.1	1.1	.3	.0	75	.0	2.9
2	.0	.0	.0	.5	3.6	2.7	.1	.0	179	.0	6.9
1	.0	.0	.0	.8	5.0	3.4	.2	.0	255	.2	10.0
0	.0	*	*	2.4	11.6	4.3	.2	.0	482	.1	18.6
-1	.0	.0	.3	3.1	9.4	2.4	.0	.0	393	*	15.2
-2	.0	*	.3	4.8	7.6	1.8	.0	.0	372	.0	14.4
-3	.0	*	.4	4.2	3.6	.6	*	.0	227	.0	8.8
-4	.0	.1	.7	3.1	2.4	.2	.0	.0	167	.0	6.5
-5	*	.0	.7	2.4	1.3	.1	.0	.0	117	.0	4.5
-6	*	.0	.6	1.1	.4	.0	.0	.0	54	.0	2.1
-7/-8	.0	*	1.0	1.4	.3	.0	.0	.0	72	*	2.8
-9/-10	.0	.2	.4	.2	.0	.0	.0	.0	21	.0	.8
-11/-13	*	.3	.2	.1	.0	.0	.0	.0	16	.0	.6
TOTAL	2	19	123	636	1248	480	60	10	2578	11	2567
PCT	.1	.7	4.8	24.7	48.4	18.6	2.3	.4	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.1	.0	.0	.0	.6	.3	.6	.2	.0	.0	.0	1.1
1-2	.2	2.0	.3	.0	.0	.0	2.5	.2	5.4	2.0	.0	.0	.0	7.6
3-4	.0	.9	1.8	.1	.0	.0	2.8	.0	3.4	5.0	.2	.0	.0	8.7
5-6	.0	.1	1.5	.2	.0	.0	1.8	.0	.7	2.9	.8	.1	.0	4.6
7	.0	.1	.4	.3	.0	.0	.7	.0	*	1.2	.4	.0	.0	1.6
8-9	.0	.0	.1	.1	.1	.0	.3	.0	.0	.6	.2	.0	.0	.8
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.4	.0	.0	.5
12	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.6	4.1	.9	.1	.0	8.9	.4	10.1	11.5	2.7	.4	.0	25.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.3	.1	.7	.0	.0	.0	.0	.8
1-2	.5	4.5	1.2	.0	.0	.0	6.3	.2	4.4	.6	.0	.0	.0	5.2
3-4	.0	1.9	1.9	.1	.0	.0	3.9	.0	2.4	3.5	.2	.0	.0	6.1
5-6	.0	.6	2.1	.3	.0	.0	3.0	.0	.9	2.1	.3	*	.0	3.3
7	.0	.2	.4	.0	.0	.0	.6	.0	.2	1.4	.2	.0	.0	1.8
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.1	.2	.3	.2	.0	.7
10-11	.0	.0	.0	.1	.0	.1	.2	.0	.0	.2	.5	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	8.3	5.7	.6	.0	.1	15.4	.3	8.6	8.0	1.9	.3	.0	19.1

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0022 DURBAN
28.55 33.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.9	1.3	.0	.0	.0	4.2	.0	1.1	.4	.0	.0	.0	1.5
3-4	.0	1.1	2.7	.4	.0	.0	4.1	.0	.3	1.0	.1	.0	.0	1.4
5-6	.0	.4	2.4	1.5	.1	.0	4.5	.0	.1	.9	.3	.0	.0	1.3
7	.0	.2	1.8	1.3	.1	.0	3.4	.0	.1	.2	.6	.0	.0	.9
8-9	.0	.0	1.2	.7	.1	.0	2.0	.0	.0	.2	.5	.1	.0	.7
10-11	.0	.0	.0	.8	.2	.0	1.0	.0	.0	.1	.3	.1	.0	.5
12	.0	.0	.0	.2	.1	.0	.2	.0	.1	.0	.0	.1	.0	.2
13-16	.0	.0	.0	.2	.3	.1	.5	.0	.1	.1	.1	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	5.2	9.5	5.0	.9	.1	20.9	.0	1.8	2.8	1.9	.4	.0	7.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1-2	.1	.2	.1	.0	.0	.0	.4	.1	.4	.1	.0	.0	.0	.6	
3-4	.0	.1	.2	.0	.0	.0	.3	.0	.2	.1	.0	.0	.0	.4	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.3	.4	.1	.0	.0	.9	.2	.6	.3	.1	.0	.0	1.2	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	3.5	.3	.0	.0	.0	6.4	
1-2	1.8	21.0	5.8	.0	.0	.0	28.6	
3-4	.0	10.5	16.0	1.1	.0	.0	27.5	
5-6	.0	2.8	11.8	3.5	.2	.0	18.3	
7	.0	.7	5.4	2.8	.1	.0	9.0	
8-9	.0	.1	1.9	2.3	.5	.0	4.8	
10-11	.0	.0	1.4	2.2	.3	.1	2.9	
12	.0	.1	.0	.6	.3	.0	1.0	
13-16	.0	.1	.1	.5	.5	.1	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.4	38.7	41.7	13.0	2.1	.2	100.0	1327

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	4.7	9.8	8.6	3.7	1.6	.9	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	533	4
6-7	.1	.6	4.8	8.5	6.3	4.0	2.4	1.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	491	6
8-9	.0	.2	1.1	4.5	4.3	3.2	1.9	.5	1.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	299	8
10-11	.0	.5	.5	.6	1.3	1.6	1.1	.6	.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	127	9
12-13	.0	.0	.3	.4	.9	.6	.6	.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	62	9
>13	.0	.0	.0	.1	.2	.2	.1	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	15	10
INDET	.6	.8	1.6	1.6	1.8	1.5	1.3	.5	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	180	7
TOTAL	31	117	311	415	317	222	143	53	72	14	10	2	0	0	0	0	0	0	0	1707	6
PCT	1.8	6.9	18.2	24.3	18.6	13.0	8.4	3.1	4.2	.8	.6	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1855-1973

MARCH

AREA 0022 DURBAN
28.55 33.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WFA
N	2.0	.9	.5	.0	.0	.0	.0	3.4	1.4	3.2	.0	.0	2.2	.0 90.1
NE	1.8	.8	.6	.0	.0	.0	.0	3.0	1.3	3.7	.3	.0	1.0	.0 91.2
E	3.0	2.3	1.5	.0	.0	.0	.0	6.8	3.4	1.8	.2	.0	.2	.0 87.8
SE	3.4	4.0	.8	.0	.0	.0	.0	8.1	4.3	1.0	.4	.0	.0	.0 85.4
S	5.0	6.3	1.6	.0	.0	.0	.0	12.7	4.4	3.0	.3	.0	.1	.0 78.3
SW	5.5	8.6	1.8	.0	.0	.0	.0	15.9	5.6	3.7	.4	.0	.9	.0 74.6
W	7.2	4.0	.0	.0	.0	.0	.0	11.2	4.4	8.4	1.6	.0	.0	.0 79.2
NW	4.8	4.3	.0	.0	.0	.0	.0	9.1	1.7	4.8	.0	.0	.9	.0 80.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	5.3	2.6	.0	.0	.0	.0	7.9	.0	7.9	.0	.0	.0	.0 84.2
TOT PCT	3.3	3.4	1.0	.0	.0	.0	.0	7.7	3.5	2.9	.3	.0	.6	.0 85.6
TOT OBS:	3079													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WFA
0000	3.7	4.0	1.3	.0	.0	.0	.0	9.1	4.0	6.6	.1	.0	.3	.0 81.0
0600	3.5	3.8	1.5	.0	.0	.0	.0	8.8	4.4	.6	.8	.0	1.0	.0 84.9
1200	2.4	3.4	.7	.0	.0	.0	.0	6.5	3.0	.1	.2	.0	1.0	.0 89.2
1800	3.6	2.4	.6	.0	.0	.0	.0	6.3	2.3	5.5	.3	.0	.3	.0 86.3
TOT PCT	3.3	3.4	1.0	.0	.0	.0	.0	7.7	3.4	3.0	.4	.0	.7	.0 85.5
TOT OBS:	3176													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.5	4.0	4.1	.7	*	.0		9.3	12.1	8.4	12.1	14.3	9.7	8.4	6.7	5.7	8.2
NE	.8	9.5	11.5	1.9	.1	.0		23.8	12.6	29.5	19.7	20.5	21.4	26.2	24.7	25.1	24.3
E	1.1	8.9	5.3	.6	.1	.0		16.0	10.3	17.2	12.8	12.7	14.2	16.1	19.2	18.5	17.8
SE	.7	7.8	7.2	1.5	.1	.0		17.3	12.3	18.6	15.6	16.4	14.4	18.6	16.5	19.8	17.2
S	.7	5.3	7.5	3.1	.6	.1		17.3	15.2	14.2	18.4	16.8	17.8	17.6	18.0	18.3	16.7
SW	.6	3.4	4.2	1.8	.3	*		10.3	14.6	5.6	13.5	11.1	14.6	9.1	11.1	8.1	9.6
W	.4	1.3	.8	.2	*	.0		2.6	9.9	2.1	3.0	3.3	3.2	1.8	2.2	1.9	3.4
NW	.3	1.2	.5	*	.0	.0		2.1	8.4	1.7	2.7	3.7	2.5	1.3	.8	1.4	1.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	2.8	2.0	1.3	2.2	1.0	.8	1.1	1.0
TOT OBS	336	2182	2164	507	68	5	5262	12.4		570	443	935	744	608	504	967	491
TOT PCT	6.4	41.5	41.1	9.6	1.3	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	2.0	4.9	2.2	.2	.0	9.3	12.1	10.0	12.3	7.7	6.6	
NE	4.1	13.2	5.9	.5	*	23.8	12.6	25.2	20.9	25.5	24.8	
E	4.5	9.1	2.2	.2	.0	16.0	10.3	15.3	13.3	17.5	18.2	
SE	3.3	10.0	3.4	.5	*	17.3	12.3	17.3	15.5	17.6	18.9	
S	2.4	8.2	5.1	1.4	.2	17.3	15.2	16.0	17.2	17.7	17.7	
SW	1.7	4.8	2.8	.9	*	10.3	14.6	9.1	12.7	10.0	8.6	
W	1.0	1.2	.3	.1	*	2.6	9.9	2.5	3.3	2.0	2.4	
NW	.9	1.0	.2	*	.0	2.1	8.4	2.1	3.2	1.1	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5					1.5	.0	2.5	1.7	.9	1.1	
TOT OBS	1128	2756	1160	201	17	5262		1013	1679	1112	1458	
TOT PCT	21.4	52.4	22.0	3.8	.3	100.0		100.0	100.0	100.0	100.0	

MARCH

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1955-1973AREA 0022 DURBAN
28.55 33.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.5	3.8	44.3	38.4	10.1	.8	.1	12.2	100.0	1013
0600	1.7	6.7	42.4	38.8	9.0	1.3	.2	12.0	100.0	1679
1200	.9	3.7	38.7	45.7	9.6	1.4	.0	13.0	100.0	1112
1800	1.1	4.5	40.5	42.2	10.1	1.6	.0	12.7	100.0	1458
TOT	79	257	2187	2164	507	68	5	12.4		5262
PCT	1.5	4.9	41.5	41.1	9.6	1.3	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.8	1.8	2.3	.8		3.5
NE	10.8	6.1	6.2	2.4		3.4
E	6.2	4.3	5.0	2.1		3.9
SE	5.2	5.7	5.7	3.4		4.4
S	3.1	3.6	5.2	3.9		5.0
SW	1.4	1.0	2.8	2.1		5.4
W	.7	.2	.4	.4		4.3
NW	.6	.5	.6	.2		4.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.3	.5	.2		4.2
TOT OBS	695	507	615	335	2152	4.2
TOT PCT	32.3	23.6	28.6	15.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.1	.5	.8	.3	.3	.0	.0	.0	6.9	
NE	.1	.1	.1	1.2	2.0	.8	.6	.1	.0	.1	20.6	
E	.0	.1	.2	1.3	2.0	1.0	.3	.1	.0	.1	12.7	
SE	.0	.1	.3	1.7	2.5	1.1	.5	.1	.1	.2	13.5	
S	.1	.1	.4	1.9	3.1	.9	.3	.2	.0	.1	9.0	
SW	.1	.0	.1	1.6	1.2	.7	.2	.1	.0	.0	3.3	
W	.1	.0	.0	.1	.1	.2	.1	.0	.0	.0	1.1	
NW	.0	.0	.0	.2	.3	.1	.1	.0	.0	.0	1.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	7	6	23	186	261	113	47	9	5	10	1485	2152
TOT PCT	.3	.3	1.1	8.6	12.1	5.3	2.2	.4	.2	.5	69.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.7	.8	.8	.8	.8	.8	.8	.8
>5000	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5500	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>6000	7.4	8.5	8.6	8.6	8.6	8.6	8.6	8.6
>6500	16.7	20.3	20.5	20.6	20.7	20.7	20.7	20.7
>7000	21.7	28.0	29.0	29.2	29.2	29.3	29.3	29.3
>7500	22.0	28.7	29.9	30.1	30.2	30.3	30.3	30.3
>8000	22.1	28.8	30.1	30.3	30.4	30.5	30.6	30.6
>8500	22.2	29.1	30.4	30.7	30.8	30.8	30.9	30.9
TOTAL	488	638	667	673	675	677	678	678

TOTAL NUMBER OF OBS: 2195

PCT FREQ NH <5/8 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	9.2	16.4	18.2	14.5	9.7	6.5	7.6	6.3	11.5	.2	2336

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	*	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	*	*	.1	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.1	*	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	*	*	.1	.1	.0	.0	.0	.0	.2	
	NO PCP	.1	.2	.1	.0	*	.1	.0	*	.0	.0	.6	
	TOT %	.1	.2	.1	*	.2	.1	.0	*	.0	.0	.8	
2<5	PCP	*	.1	.1	.2	.3	.1	.0	.0	.0	.0	.8	
	NO PCP	.0	.1	*	.1	.1	.1	.1	.0	.0	.1	.6	
	TOT %	*	.2	.2	.3	.4	.2	.1	.0	.0	.1	1.5	
5<10	PCP	.2	.3	.5	.8	1.2	1.0	.2	.2	.0	.0	4.3	
	NO PCP	1.7	3.2	2.4	3.2	3.8	2.7	.4	.4	.0	.1	17.8	
	TOT %	2.0	3.5	2.9	3.9	5.0	3.7	.6	.6	.0	.1	22.1	
10+	PCP	.1	.3	.5	.4	.3	.3	.1	.0	.0	.1	2.0	
	NO PCP	6.7	20.5	13.5	14.1	10.3	4.6	1.3	1.3	.0	.9	73.9	
	TOT %	6.7	20.8	13.9	14.5	10.7	4.9	1.4	1.3	.0	1.0	75.3	
TOT OBS													
TOT PCT													
		8.8	24.8	17.1	18.8	16.3	8.9	2.0	1.9	.0	1.2	100.0	3076

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	*	*	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	*	*	*	.0	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	*	.1	*	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	*	.1	*	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	*	*	.0	*	*	*	.0	.0	.0	.2	
	11-21	*	.1	*	*	*	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	*	.1	*	*	.0	.0	.0	.1	
	TOT %	.1	.2	.1	*	.2	.1	.0	*	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	.1	
	4-10	.0	*	.1	.1	*	.1	*	.0	.0	.0	.3	
	11-21	*	.2	.1	.2	.2	.1	.0	.0	.0	.0	.8	
	22+	*	.1	*	*	.2	.1	*	.0	.0	.0	.5	
	TOT %	*	.3	.2	.3	.4	.3	.1	.0	.0	.1	1.7	
5<10	0-3	.1	.1	.1	.2	.2	.1	.1	*	.0	.1	.9	
	4-10	.7	1.2	1.2	1.3	1.1	.7	.2	.4	.0	.0	6.8	
	11-21	.9	1.5	1.0	1.3	1.8	1.4	.2	.1	.0	.0	8.0	
	22+	.2	.4	.3	.5	1.5	1.2	*	*	.0	.0	4.2	
	TOT %	1.8	3.2	2.6	3.3	4.5	3.4	.5	.5	.0	.1	19.9	
10+	0-3	.2	.7	.7	.3	.5	.4	.2	.1	.0	1.2	4.3	
	4-10	3.0	8.3	8.1	6.6	3.6	2.2	.9	.7	.0	.0	33.4	
	11-21	3.7	10.6	4.5	6.0	5.0	2.4	.3	.5	.0	.0	33.0	
	22+	.6	1.9	.2	1.0	2.0	.8	.1	*	.0	.0	6.7	
	TOT %	7.5	21.5	13.5	13.9	11.0	5.8	1.5	1.4	.0	1.2	77.4	
TOT OBS													
TOT PCT													
		9.4	25.2	16.5	17.6	16.2	9.7	2.1	1.9	.0	1.4	100.0	4056

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 249	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.8	.2	1.5	9.2	13.7	5.6	2.3	.2	.2	.4	34.0	64.0	532
06009	.2	.2	1.2	8.8	16.8	5.2	2.6	.2	.2	.3	35.6	64.4	578
12015	.0	.3	1.1	7.2	9.0	5.0	2.2	.3	.3	.8	26.2	73.8	641
18021	.4	.4	.2	8.3	7.5	5.0	1.2	1.0	.2	.6	24.7	75.3	519
TOT	7	6	23	189	267	118	47	9	5	12	683	1587	2270
PCT	.3	.3	1.0	8.3	11.8	5.2	2.1	.4	.2	.5	30.1	69.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.5	.1	.3	1.2	19.9	78.0	865
06009	.2	.4	.9	1.7	22.8	74.0	1204
12015	.1	.2	1.0	1.9	16.3	80.5	958
18021	.1	.1	.4	1.7	22.3	75.4	1126
TOT	8	9	29	68	853	3186	4153
PCT	.2	.2	.7	1.6	20.3	76.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.8	2.9	12.8	21.9	65.2	515
06009	.2	1.6	11.5	25.9	62.7	557
12015	.0	1.4	9.5	17.6	72.9	624
18021	.4	1.0	10.0	15.8	74.1	499
TOT	7	38	239	446	1510	2195
PCT	.3	1.7	10.9	20.3	68.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
85/89	.0	.0	.0	.0	.4	.5	.1	.0	24	1.1
80/84	.0	.0	.0	.3	3.0	8.5	6.3	1.7	448	19.7
75/79	.0	.0	.1	1.5	8.4	23.0	20.5	7.2	1377	60.7
70/74	.0	.0	.1	1.7	4.3	4.4	3.6	2.7	380	16.7
65/69	.0	.0	.0	.3	.2	.5	.2	.3	35	1.5
60/64	.0	.0	.0	.0	.0	.0	.0	.2	4	.2
TOTAL	0	0	6	84	369	839	696	275	2269	100.0
PCT	.0	.0	.3	3.7	16.3	37.0	30.7	12.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.3	.2	.2	.2	.1	.0	.0	.0	.0	.0
2.5	6.3	3.4	3.2	1.9	1.1	.3	.7	.0	.3
5.2	16.6	11.4	11.8	8.6	4.3	1.0	.7	.0	.9
.8	2.9	2.3	3.7	4.0	2.3	.2	.3	.0	.3
.1	.1	.2	.4	.5	.2	.1	.1	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
9.0	26.0	17.5	19.2	15.1	8.2	1.6	1.9	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	81	80	76	71	67	63	75.5	1031
06009	90	84	82	77	71	67	63	76.7	1694
12015	90	86	83	78	72	69	63	78.1	1117
18021	85	82	80	76	71	68	64	76.1	1478
TOT	90	84	82	77	71	67	63	76.6	5320

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.4	11.3	31.5	37.4	16.4	80	556
06009	.0	4.4	14.8	37.6	28.7	13.6	78	596
12015	.0	5.0	23.0	40.3	25.0	6.8	75	621
18021	.0	2.6	14.0	36.7	32.0	14.7	79	572
TOT	0	91	380	859	717	298	78	2345

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FDG	WD FDG
11/13	.0	.0	*	*	.1	.0	.0	.0	5	.0	.2
9/10	.0	.0	*	*	.0	.1	*	.1	7	.0	.2
7/8	.0	.0	.1	.1	.1	.3	.1	.0	21	*	.7
6	.0	.0	.0	*	.1	.1	.1	.0	9	.0	.3
5	.0	.0	.1	.2	.3	.4	.3	.0	37	.0	1.3
4	.0	.0	.1	.2	.7	.9	.1	.0	60	.0	2.1
3	.0	.0	.0	.3	1.0	1.1	.2	.0	77	.0	2.7
2	.0	.0	*	.8	3.1	1.6	.1	.0	159	.0	5.5
1	.0	*	.0	1.3	5.0	1.8	.1	.0	233	.1	8.0
0	*	*	.2	3.0	9.1	2.3	*	.0	422	.0	14.7
-1	.0	.0	.5	4.1	10.2	.9	.0	.0	450	.1	15.5
-2	*	.1	.6	6.2	8.4	.7	*	.0	462	.0	16.1
-3	.0	*	.5	5.4	4.6	.4	.0	.0	311	*	10.8
-4	.1	.1	1.1	5.2	1.8	.1	.0	.0	241	.0	8.4
-5	.0	.0	1.1	3.2	1.1	.1	.0	.0	160	.0	5.6
-6	.0	.1	1.2	1.5	.4	.0	.0	.0	92	.0	3.2
-7/-8	.0	.3	1.5	1.5	.1	.0	.0	.0	100	.0	3.5
-9/-10	*	.2	.5	.1	.0	.0	.0	.0	21	.0	.7
-11/-13	*	.1	.2	.0	.0	.0	.0	.0	8	.0	.3
-14/-16	*	*	*	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	7		223		1328		32		2878	8	2870
PCT	.2	1.1	7.7	32.9	46.1	10.7	1.1	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.3	.5	.0	.0	.0	.0	.8
1-2	.0	1.6	.6	.0	.0	.0	2.2	.3	5.0	2.4	.0	.0	.0	7.7
3-4	.0	.7	2.1	.1	.0	.0	2.8	.0	3.2	5.6	.3	.0	.0	9.1
5-6	.0	.1	1.5	.4	.0	.0	1.9	.0	.6	4.0	.3	.0	.0	4.9
7	.0	.0	.8	.1	.0	.0	.9	.0	.0	.9	.6	.0	.0	1.5
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.8	5.1	.9	.0	.0	8.9	.6	9.2	13.4	2.1	.1	.0	25.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6	.3	.7	.0	.0	.0	.0	.9
1-2	.2	6.0	1.2	.0	.0	.0	7.4	.1	3.9	1.6	.0	.0	.0	5.5
3-4	.0	2.4	3.1	.0	.0	.0	5.6	.0	2.5	3.2	*	.0	.0	5.7
5-6	.0	.6	1.8	.2	.0	.0	2.6	.0	.3	2.9	.3	.0	.0	3.4
7	.0	.1	.8	.1	.0	.0	1.0	.0	.1	1.4	.6	*	.0	2.2
8-9	.0	.1	.3	.3	.0	.0	.7	.0	.0	.5	.6	.0	.0	1.1
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	10.5	7.2	.8	.0	.0	19.1	.4	7.4	9.6	2.1	*	.0	19.5

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	.0	.0	.0	.0	.3	.1	.3	.0	.0	.0	.0	.3
1-2	.3	1.9	1.0	.0	.0	.0	3.2	.2	1.0	.5	.0	.0	.0	1.6
3-4	.0	2.0	2.3	.2	.0	.0	4.5	.0	.7	1.2	.1	.0	.0	2.0
5-6	.0	.2	2.1	.7	.1	.0	3.1	.0	.1	1.1	.4	.0	.0	1.5
7	.0	.0	.7	1.1	.2	.0	2.1	.0	.0	.3	.5	.0	.0	.7
8-9	.0	.0	.5	.3	.0	.0	.8	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.3	.7	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.4	.1	.0	.5	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.2	7.0	3.8	.5	.1	15.9	.2	2.0	3.2	1.2	.1	*	6.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.1	.1	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1	
1-2	.1	.4	.1	.0	.0	.0	.6	.0	.5	.2	.0	.0	.0	.7	
3-4	.0	.1	.1	.0	.0	.0	.3	.0	.3	.5	.0	.0	.0	.8	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	*	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	.7	.4	.0	.0	.0	1.2	.0	.9	.7	*	.0	.0	1.7	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	3.4	.1	.0	.0	.0	7.4	
1-2	1.3	20.2	7.3	.0	.0	.0	28.8	
3-4	.1	11.7	17.8	.7	.0	.0	30.3	
5-6	.1	1.7	13.3	2.3	.1	.0	17.5	
7	.0	.2	4.8	3.0	.2	.0	8.2	
8-9	.0	.2	1.6	.0	.0	.0	3.6	
10-11	.0	.0	.4	1.7	.0	.0	2.1	
12	.0	.0	.1	.7	.0	.0	.7	
13-16	.0	.1	.0	.8	.1	.0	1.0	
17-19	.0	.0	.0	.1	.1	.1	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	37.4	45.6	10.8	.6	.1	100.0	1510

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	5.9	9.9	8.8	4.1	2.0	.9	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	612	4
6-7	.0	.6	5.7	9.6	4.8	3.5	2.7	.9	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	539	6
8-9	.0	.8	1.6	3.6	4.2	2.7	2.8	.7	1.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	342	8
10-11	.0	.4	.3	1.0	1.2	.9	1.1	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	8
12-13	.0	.0	.7	.6	.7	.5	.5	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	64	7
13-14	.0	.0	.0	.3	.2	.2	.1	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	10
14-15	1.2	.3	1.6	2.2	2.1	.7	.8	.2	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	179	6
TOTAL	36	150	368	487	323	196	165	46	71	17	8	3	0	0	0	0	0	0	0	1870	6
PCT	1.9	8.0	19.7	26.0	17.3	10.5	8.8	2.5	3.8	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1955-1973

APRIL

AREA 0022 DURBAN
28.65 33.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.2	2.1	.2	.0	.0	.0	.1	3.5	1.6	3.1	1.4	.0	1.1	.2	89.2
NE	1.4	.8	.8	.0	.0	.0	.1	3.0	2.0	5.0	1.0	.0	1.0	.0	88.1
E	3.0	.9	2.3	.0	.0	.0	.0	5.8	1.1	3.7	1.2	.0	.6	.0	87.6
SE	4.3	5.0	1.5	.0	.0	.0	.0	10.7	4.6	1.8	1.0	.0	.0	.1	82.5
S	4.8	4.7	1.3	.0	.0	.0	.0	10.7	4.8	4.2	.4	.0	.5	.4	80.2
SW	5.8	6.5	1.3	.0	.0	.0	.0	13.5	3.9	3.7	.6	.0	.8	.1	78.3
W	8.1	3.2	1.2	.0	.0	.0	.0	12.5	3.0	7.9	.8	.0	1.4	.0	76.0
NW	4.7	1.8	.0	.0	.0	.0	.0	6.5	3.1	7.8	.9	.0	.4	.0	84.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	1.8	.0	94.5
TOT PCT	3.6	3.2	1.2	.0	.0	.0	*	7.8	3.0	4.0	.9	.0	.7	.1	84.1
TOT OBS:	3028														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FUG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.2	2.4	1.9	.0	.0	.0	.0	9.2	4.6	9.2	.7	.0	.6	.1	77.0
06009	4.0	3.6	.6	.0	.0	.0	.0	8.0	2.4	1.4	.8	.0	1.3	.2	86.5
12015	1.6	3.1	.9	.0	.0	.0	.0	5.5	3.4	.4	.8	.0	.7	.0	89.4
18021	3.6	3.7	1.3	.0	.0	.0	.1	8.5	2.1	6.0	1.2	.0	.2	.1	82.7
TOT PCT	3.6	3.2	1.1	.0	.0	.0	*	7.8	3.0	4.1	.9	.0	.7	.1	84.0
TOT OBS:	3158														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	5.2	5.6	1.2	*	.0		12.5	12.5	14.2	16.2	16.4	12.1	12.1	8.4	9.1	12.1	
NE	.9	9.0	8.4	1.3	*	.0		19.6	11.7	18.9	20.7	16.4	19.0	17.6	21.9	21.3	23.2	
E	1.0	7.2	3.9	1.5	*	*		12.6	9.9	9.7	9.7	11.4	13.2	11.6	16.1	14.8	12.9	
SE	.8	6.1	4.6	1.1	.1	*		12.7	11.9	12.9	10.4	10.8	11.7	15.0	14.1	14.8	11.6	
S	.7	5.6	7.6	3.1	.7	.1		17.9	15.5	19.1	15.0	16.8	16.6	22.3	17.1	20.0	15.8	
SW	.6	4.5	6.1	2.7	.6	*		14.6	15.6	14.3	15.7	15.5	17.0	13.2	15.8	11.9	13.6	
W	.4	2.3	1.1	.3	.1	.0		4.3	10.6	3.6	5.5	5.8	5.1	2.4	3.2	7.0	5.3	
NW	.3	2.1	1.0	.2	*	.0		3.6	9.9	3.7	3.8	5.4	4.0	3.5	2.7	2.6	2.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1							2.1	.0	3.5	3.1	1.6	1.4	2.2	.7	2.4	3.0	
TOT OBS	410	2339	2127	576	93	8	5542		12.5	539	481	964	924	543	536	1026	829	
TOT PCT	7.4	42.1	38.3	10.4	1.7	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	2.5	6.8	2.8	.4	*			12.5	12.5	15.1	14.3	10.3	10.1	
NE	4.1	11.2	4.1	.3	.0			19.6	11.7	19.7	17.7	19.7	21.9	
E	4.0	7.1	1.4	.2	*			12.6	9.9	9.7	12.3	13.9	14.2	
SE	2.9	6.8	2.4	.4	*			12.7	11.9	11.7	11.2	14.6	13.7	
S	2.7	7.5	5.9	1.5	.3			17.9	15.5	17.2	16.7	19.7	18.6	
SW	2.4	6.1	4.4	1.4	.3			14.6	15.6	15.0	16.2	14.5	12.4	
W	1.5	1.9	.6	.2	*			4.3	10.6	4.5	5.4	2.8	3.8	
NW	1.3	1.8	.5	*	*			3.6	9.9	3.7	4.7	3.1	2.6	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	2.1							2.1	.0	3.3	1.5	1.5	2.6	
TOT OBS	1306	2779	1224	245	38	5542			12.5	1020	1888	1079	1555	
TOT PCT	23.6	49.2	22.1	4.4	.7			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1854-1973

APRIL

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4R+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.3	4.5	42.7	39.1	8.1	2.1	.1	12.3	100.0	1020
0600	1.5	6.8	47.5	36.1	11.1	1.9	.2	12.5	100.0	1888
1200	1.5	4.0	37.6	41.5	13.7	1.6	.1	13.4	100.0	1079
1800	2.6	4.7	44.3	38.2	8.7	1.3	.1	12.0	100.0	1555
TOT	119	291	2333	2122	576	93	8	12.5		5542
PCT	2.1	5.3	42.1	38.3	10.4	1.7	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	6.5	3.1	2.7	1.1		3.1
NE	7.3	3.4	4.9	2.3		3.6
E	3.3	2.5	3.4	2.0		4.4
SE	3.5	3.4	4.1	3.3		4.7
S	5.7	4.6	7.8	2.8		4.4
SW	3.4	2.9	4.1	2.7		4.6
W	1.4	1.0	.6	.7		3.7
NW	1.5	1.0	.8	.4		3.4
VAR	.0	.0	.0	.0		.0
CALM	1.2	.4	.1			2.7
TOT OBS	660	436	554	302	1952	4.0
TOT PCT	33.8	22.3	28.4	15.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.1	.6	1.3	.3	.1	.2	.0	.1	11.0	
.0	.0	.9	2.1	.8	.2	.2	.0	.0	.1	13.6	
.1	.0	.1	.7	1.4	.5	.2	.0	.0	.0	8.0	
.1	.1	.3	1.3	2.2	.9	.1	.1	.1	.0	9.3	
.2	.1	.4	1.5	3.0	1.4	.4	.2	.1	.0	13.3	
.1	.1	.3	1.6	1.9	.6	.4	.1	.0	.0	8.0	
.0	.0	.0	.2	.4	.3	.0	.0	.0	.0	2.7	
.0	.0	.0	.3	.2	.0	.1	.0	.0	.0	3.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.1	.2	.1	.0	.0	.0	.0	1.7	
10	6	25	138	247	98	28	11	4	5	1379	1952
.5	.3	1.3	7.1	12.7	5.0	1.4	.6	.2	.3	70.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	■ OR ■ >10	■ OR ■ >5	■ OR ■ >2	■ OR ■ >1	■ OR ■ >1/2	■ OR ■ >1/4	■ OR ■ >50YD	■ OR ■ >0
■ OR >6500	1.4	.5	.5	.6	.6	.6	.6	.6
■ OR >5000	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.2
■ OR >3500	2.2	2.4	2.5	2.6	2.6	2.6	2.6	2.6
■ OR >2000	6.3	7.3	7.6	7.7	7.7	7.7	7.7	7.7
■ OR >1000	16.0	19.5	20.2	20.4	20.4	20.4	20.4	20.4
■ OR >600	20.5	26.2	27.2	27.4	27.4	27.4	27.4	27.4
■ OR >300	21.2	27.3	28.4	28.7	28.7	28.7	28.7	28.7
■ OR >150	21.3	27.6	28.7	29.0	29.0	29.0	29.0	29.0
■ OR >0	21.4	27.9	29.1	29.4	29.5	29.5	29.5	29.5
TOTAL	426	557	581	587	588	589	589	589

TOTAL NUMBER OF OBS: 1994

PCT FREQ NH <5/8: 70.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCH	TOTAL OBS
11.2	17.4	16.9	13.6	10.9	6.6	6.5	5.7	10.9	.2	2111

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1855-1973

APRIL

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.1	.1	*	.1	*	*	*	*	.0	.0	.6	
	TOT %	.1	.1	*	.1	*	.1	.1	*	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	*	.1	*	*	.0	.0	.2	
	NO PCP	.1	.1	*	.0	.1	.1	.1	*	.0	.0	.6	
	TOT %	.1	.1	*	.0	.2	.2	.1	*	.0	.0	.7	
2<5	PCP	*	*	.1	.2	.1	.2	*	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	*	.1	.3	*	*	.0	.0	.5	
	TOT %	*	*	.1	.2	.2	.4	*	*	.0	.0	1.1	
5<10	PCP	.3	.3	.3	1.0	1.3	1.4	.3	.1	.0	.0	5.0	
	NO PCP	2.9	5.6	2.3	2.9	4.1	3.6	.9	.6	.0	.4	23.4	
	TOT %	3.2	5.9	2.6	3.9	5.4	5.1	1.2	.7	.0	.4	28.4	
10+	PCP	.1	.3	.2	.3	.5	.2	.1	.1	.0	.0	1.8	
	NO PCP	9.6	13.0	8.4	9.0	12.3	8.2	2.6	2.8	.0	1.4	67.3	
	TOT %	9.8	13.3	8.6	9.3	12.8	8.5	2.7	2.9	.0	1.4	69.3	
TOT OBS													3028
TOT PCT													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	1.0	.2	1.0	7.2	12.5	4.2	1.2	.4	.4	.2	28.2	71.8	503
06009	.6	.6	1.7	7.0	13.4	7.5	1.7	.8	.0	.6	33.7	66.3	531
12015	.0	.2	1.3	7.0	12.0	4.3	.6	.6	.0	.4	26.2	73.8	541
18021	.4	.2	1.0	5.9	10.9	3.8	2.0	.6	.4	.2	25.5	74.5	494
TOT	10	6	26	140	253	103	28	12	4	7	589	1480	2069
PCT	.5	.3	1.3	6.8	12.2	5.0	1.4	.6	.2	.3	28.5	71.5	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.4	.4	1.3	23.3	74.6	844
06009	.3	.6	.8	1.0	26.6	70.7	1147
12015	.0	.7	.7	1.5	22.7	74.5	885
18021	.2	.6	.6	1.2	28.8	68.6	1144
TOT	5	23	25	50	1032	2885	4020
PCT	.1	.6	.6	1.2	25.7	71.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.0	2.2	10.6	18.4	71.0	490
06009	.6	2.9	11.2	24.0	64.8	509
12015	.0	1.5	10.3	17.4	72.3	517
18021	.4	1.7	8.2	18.2	73.6	478
TOT	10	42	201	389	1404	1994
PCT	.5	2.1	10.1	19.5	70.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	.1	.1	.0	.0	6	.3
80/84	.0	*	*	.1	.9	2.3	1.5	.3	118	5.3
75/79	.0	.0	.0	1.3	6.7	17.4	13.2	5.3	985	44.0
70/74	.0	.0	.2	2.6	10.4	13.5	10.0	4.9	934	41.7
65/69	.0	.0	*	.5	1.6	1.8	2.2	2.1	183	8.2
60/64	.0	.0	.0	.0	*	.2	.1	.4	15	.7
TOTAL	0	1	7	105	444	789	605	296	2241	100.0
PCT	.0	*	.3	4.7	19.8	35.2	27.0	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	*	.1	*	.1	.0	.0	.0	.0	*
80/84	1.3	1.5	.6	.4	.5	.4	.1	.2	.0	.2
75/79	7.5	10.9	5.1	5.2	7.1	3.9	1.0	2.2	.0	1.0
70/74	3.5	5.8	4.6	7.1	9.8	6.6	2.3	1.1	.0	1.0
65/69	.4	.5	.5	.9	2.2	2.9	.5	.1	.0	.1
60/64	.0	.0	*	.0	*	.5	.1	.0	.0	.0
TOTAL	12.8	18.6	10.9	13.6	19.8	14.3	4.0	3.7	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	80	78	73	67	64	61	73.0	1042
06009	86	82	80	75	68	65	61	74.6	1881
12015	88	84	81	76	70	66	62	75.5	1075
18021	84	81	78	74	68	65	62	73.7	1578
TOT	88	82	80	74	68	65	61	74.2	5576

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.5	18.3	30.5	32.1	16.7	79	558		
06009	.0	5.4	18.5	35.7	24.4	16.0	77	607		
12015	.0	9.0	22.1	39.0	21.9	8.0	74	575		
18021	.0	2.3	19.2	33.4	29.5	15.6	78	604		
TOT	0	113	457	813	631	330	77	2344		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WU FOG
11/13	.0	.0	.0	*	.0	*	*	3	.0	.1
9/10	.0	.0	.0	.0	*	.1	*	4	.0	.1
7/8	.0	.0	*	.1	.1	.1	*	11	.0	.4
6	.0	.0	.0	.1	.1	.2	.1	14	.0	.5
5	.0	.0	*	.2	.5	.2	.0	28	*	.9
4	.0	*	.1	.4	.5	.5	.0	44	.0	1.5
3	.0	.0	.1	.8	.9	.4	.0	61	.0	2.1
2	.0	*	.3	1.5	1.8	.5	.0	118	*	4.1
1	.0	.0	.3	3.1	3.2	.4	*	201	.1	6.9
0	.0	.1	.9	5.9	4.5	.3	.0	335	.2	11.4
-1	.0	.2	1.6	7.7	4.3	.1	.0	398	.2	13.6
-2	.0	.1	2.1	10.4	3.1	.1	.0	454	.1	15.7
-3	*	.2	2.8	6.6	1.9	.1	.0	337	*	11.7
-4	.1	.4	4.0	5.4	1.1	.0	.0	317	.1	10.9
-5	.0	.2	3.5	3.0	.3	.1	.0	204	.1	7.0
-6	.0	.5	2.0	1.2	.1	.0	.0	108	*	3.7
-7/-8	.1	1.3	2.9	.9	*	.0	.0	151	.0	2.2
-9/-10	.2	1.1	.7	.1	*	.0	.0	61	*	2.1
-11/-13	.1	.5	.2	.0	.0	.0	.0	26	.0	.9
-14/-16	*	.1	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	17		624		647		7	2880	26	2854
PCT	.6	4.9	21.7	47.2	22.5	3.0	.2	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.6	.3	.7	.0	.0	.0	.0	.9
1-2	.4	2.5	.9	.0	.0	.0	3.8	.3	4.5	1.0	.0	.0	.0	5.7
3-4	.1	1.0	2.4	.2	.0	.0	3.8	.0	2.2	3.6	.1	.0	.0	5.9
5-6	.0	.2	2.7	.4	.0	.0	3.4	.0	.3	2.5	.5	.0	.0	3.3
8-9	.0	.1	.7	.3	.0	.0	1.1	.0	.1	.7	.2	.0	.0	1.0
10-11	.0	.0	.2	.3	.0	.0	.5	.0	.0	.2	*	.0	.0	.3
12	.0	.0	.1	.4	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.5	7.1	1.6	.1	.0	13.9	.6	7.8	7.9	.9	.0	.0	17.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.1	.0	.0	.0	.9	.1	.2	*	.0	.0	.0	.3
1-2	.0	3.5	.6	.0	.0	.0	4.1	.2	3.7	.7	.0	.0	.0	4.5
3-4	.0	2.1	2.3	.1	.0	.0	4.5	.0	1.8	2.5	.1	.0	.0	4.5
5-6	.0	.5	.7	.1	.0	.0	1.3	.0	.3	1.7	.7	*	.0	2.7
7	.0	.0	1.0	.1	.0	.0	1.1	.0	.1	.5	.1	.0	.0	.7
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.8	.2	.0	.0	1.0
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	*	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.7	4.8	.6	.0	.0	12.2	.3	6.1	6.4	1.7	.2	.0	14.7

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0		.4	.3	.3	.0	.0	.0	.0		.6
1-2	.4	2.4	.9	.0	.0	.0		3.7	.1	1.6	.5	.0	.0	.0		2.1
3-4	.0	1.9	7.0	.4	.0	.0		5.3	.0	.9	2.2	.2	.0	.0		3.3
5-6	.0	.5	3.3	.7	.1	.0		4.6	.0	.2	1.8	.5	.0	.0		2.4
7	.0	.2	1.3	1.2	.1	.0		2.9	.0	.0	1.7	1.3	.1	.0		3.0
8-9	.0	.0	.5	.5	.1	.0		1.2	.0	.0	.3	.1	*	.0		.5
10-11	.0	.0	.2	.4	.0	.0		.6	.0	.0	.0	.3	.0	.0		.5
12	.0	.0	.2	.2	.3	.0		.7	.0	.0	.1	.2	.0	*		.5
13-16	.0	.0	.0	.3	.1	.1		.5	.0	.0	*	.0	*	.0		*
17-19	.0	.0	.1	.1	.1	.0		.2	.0	.0	.0	.0	*	.0		*
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.1	.0		.1
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	5.3	9.4	3.9	.9	.1		20.1	.4	2.9	6.6	2.6	.4	*		13.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.5	.0	.0	.0	.0		.6	.0	.2	.0	.0	.0	.0		.2	
1-2	.1	1.3	.3	.0	.0	.0		1.6	*	1.0	.2	.0	.0	.0		1.3	
3-4	.0	.4	.5	.0	.0	.0		.8	.0	.6	.5	.0	.0	.0		1.0	
5-6	.0	.2	.3	.1	.0	.0		.6	.0	.2	.1	*	.0	.0		.3	
7	.0	.1	.1	.0	.0	.0		.2	.0	*	.1	*	.0	.0		.1	
8-9	.0	.1	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.1	.0	.0	.0		.0	.0	.0	*	.0	.0	.0		*	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.1	2.4	1.3	.1	.0	.0		3.9	*	1.9	.9	.1	.0	.0		2.9	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	3.1	.1	.0	.0	.0	7.4	
1-2	1.7	20.2	5.1	.0	.0	.0	27.1	
3-4	.1	10.8	16.7	1.2	.0	.0	28.7	
5-6	.0	2.3	12.9	2.9	.2	.0	18.3	
7	.0	.6	6.1	3.1	.2	.0	10.0	
8-9	.0	.2	2.0	1.4	.2	.0	3.7	
10-11	.0	.0	.5	1.4	.1	.0	1.9	
12	.0	.0	.5	.5	.5	.0	1.4	
13-16	.0	.0	.0	.7	.2	.1	1.0	
17-19	.0	.0	.1	.1	.2	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	37.2	43.8	11.2	1.6	.1	100.0	1289

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	5.5	9.7	7.2	4.7	1.8	.9	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	509	4
6-7	.1	.7	3.5	8.3	6.0	4.2	2.7	.9	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	449	7
8-9	.0	.1	1.3	4.1	4.1	2.5	2.6	1.1	1.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	293	8
10-11	.0	.0	.5	1.5	.9	.9	.9	1.1	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	115	9
12-13	.0	.0	.4	.4	.6	.3	.9	.3	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	58	0
>13	.0	.0	.0	.5	.3	.2	.2	.1	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	32	10
INDET	1.8	.9	1.6	2.9	1.7	.7	.5	.3	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	186	5
TOTAL	45	118	282	410	300	173	143	63	69	26	8	5	0	0	0	0	0	0	0	1642	6
PCT	2.7	7.2	17.2	25.0	18.3	10.5	8.7	3.8	4.2	1.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

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28.65 33.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	.8	1.0	.0	.0	.0	.0	.0	1.8	.4	1.8	.9	.2	1.1	.3 94.0
NE	.6	1.8	.2	.0	.0	.0	.0	2.5	1.7	1.9	.9	.0	1.3	.0 91.7
E	3.4	3.0	.8	.0	.0	.0	.0	7.2	5.0	2.6	.0	.0	.3	.0 85.4
SE	2.9	2.9	.4	.0	.0	.0	.0	6.1	3.4	3.6	.2	.0	.2	.3 86.8
S	3.5	4.6	1.2	.0	.0	.0	.2	9.4	2.4	2.7	.5	.2	.7	.0 86.9
SW	3.3	3.2	.7	.0	.0	.0	.0	7.2	3.1	3.0	.0	.0	1.9	.0 85.3
W	5.0	3.6	.8	.0	.0	.0	.0	9.3	1.6	2.2	.0	.0	.4	.0 86.9
NW	4.2	2.3	.0	.0	.0	.0	.0	6.5	.8	5.1	1.6	.0	1.1	.3 85.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	2.7	.0 94.5
TOT PCT	2.4	2.6	.5	.0	.0	.0	*	5.5	2.2	2.6	.5	.1	1.0	.1 88.5
TOT OBS:	3221													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
0000	2.1	3.3	.5	.0	.0	.0	.0	6.1	2.2	6.1	.5	.0	.9	.0 84.7
0600	2.4	2.2	.1	.0	.0	.0	.0	4.7	2.4	.1	.7	.1	1.5	.2 90.4
1200	1.8	2.2	.8	.0	.0	.0	.0	4.7	2.3	.5	.1	.1	1.4	.0 91.0
1800	3.2	2.8	.5	.0	.0	.0	.0	6.6	1.8	4.6	.6	.0	.6	.1 86.6
TOT PCT	2.4	2.6	.5	.0	.0	.0	*	5.5	2.2	2.8	.5	.1	1.1	.1 88.2
TOT OBS:	3394													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.0	6.2	7.8	2.1	.1	.0		17.1	13.1		15.0	20.2	20.6	17.8	18.2	15.2	14.2	15.5
NE	1.3	8.6	7.9	1.7	.1	.0		19.7	11.9		21.3	18.1	15.0	17.8	18.5	24.2	22.8	21.7
E	1.0	5.2	3.7	.5	.0	.0		10.4	10.3		12.1	8.1	9.6	9.7	11.3	10.5	12.4	9.0
SE	.7	3.9	3.3	.9	.1	.0		8.8	12.0		9.9	5.9	7.5	8.5	11.4	8.1	10.3	8.3
S	.0	5.4	4.2	3.5	.9	.2		17.2	16.1		17.1	16.6	16.0	15.1	16.8	19.5	19.2	18.0
SW	.7	4.6	5.9	2.6	1.1	.1		15.0	16.0		12.9	15.5	16.7	17.5	13.7	14.9	12.7	14.8
W	.5	2.2	1.1	.3	.1	*		4.1	10.5		3.4	5.0	5.3	4.5	4.1	3.4	2.6	5.1
NW	.6	2.7	1.7	.4	.0	.0		5.3	10.6		4.4	7.7	7.4	6.2	4.5	3.8	3.4	5.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		3.9	2.8	1.9	2.7	1.5	.5	2.5	2.5
TOT OBS	545	2349	2766	725	141	17	6043		12.9		590	534	1013	1030	588	571	1120	597
TOT PCT	9.0	38.9	37.5	12.0	2.3	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	3.1	8.5	4.8	.7	*		17.1	13.1		17.5	19.2	16.7	14.6	
NE	4.5	10.5	4.1	.6	.0		19.7	11.9		19.8	16.4	21.3	22.4	
E	3.3	5.5	1.9	.1	.0		10.4	10.3		10.2	9.6	10.9	11.2	
SE	2.0	4.7	1.8	.3	*		8.8	12.0		8.0	8.0	9.7	9.6	
S	2.9	6.9	5.1	1.8	.5		17.2	16.1		16.9	15.5	18.1	18.7	
SW	2.6	6.2	4.1	1.7	.4		15.0	16.0		14.2	17.1	14.3	13.5	
W	1.5	1.8	.5	.2	*		4.1	10.5		4.1	4.9	3.8	3.5	
NW	1.7	2.4	1.1	.1	.0		5.3	10.6		6.0	6.8	4.1	4.0	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	2.3						2.3	.0		3.4	2.3	1.0	2.5	
TOT OBS	1451	2810	1383	339	60	6043		12.9		1124	2043	1159	1717	
TOT PCT	24.0	46.5	22.9	5.6	1.0		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.4	6.0	42.0	34.9	11.4	2.1	.3	12.5	100.0	1124
0600	2.3	8.2	39.1	36.8	11.3	2.2	.2	12.5	100.0	2043
1200	1.0	5.3	36.3	42.5	12.2	2.4	.3	13.4	100.0	1159
1800	2.5	6.3	38.3	36.8	13.2	2.6	.3	13.2	100.0	1717
TOT	140	405	2349	2266	725	141	17	12.9		6043
PCT	2.3	6.7	38.9	37.5	12.0	2.3	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.3	3.7	3.7	.7		2.7
NE	10.6	3.4	3.4	1.1		2.7
E	4.3	3.2	3.2	1.4		3.8
SE	3.2	2.8	3.4	.7		3.9
S	4.6	4.4	5.6	2.4		4.3
SW	4.8	3.0	4.8	1.3		3.9
W	1.5	.6	1.2	.5		3.8
NW	2.2	1.1	.7	.4		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.7	.5	.2	*		1.9
TOT OBS	891	479	557	182	2109	3.4
TOT PCT	42.2	22.7	26.4	8.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <4/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.4	1.0	.5	.3	.1	*	.3	14.8	
*	*	*	.5	1.1	1.0	.2	.1	*	*	15.3	
.0	*	.2	.6	1.4	.6	.2	.0	.1	.0	9.1	
*	.0	*	.7	1.2	.7	.2	.0	*	*	7.2	
.1	.1	1.1	1.9	1.5	.4	*	.0	*	*	11.5	
*	.0	.2	.7	1.5	1.1	.2	.2	*	.1	10.0	
.0	.0	.1	.2	.4	.3	.1	.0	.0	.1	2.7	
.0	.0	*	.1	.2	.2	*	.0	.0	.1	3.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	*	*	.0	.0	.0	*	.0	2.3	
4	4	12	93	189	123	30	10	5	12	1618	
.2	.2	.6	4.4	9.0	5.8	1.8	.5	.2	.6	76.7	
										2109	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.7	.8	.8	.8	.8	.8	.8	.8
>3000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>2500	2.4	2.9	3.0	3.0	3.0	3.0	3.0	3.0
>2000	6.7	8.4	8.7	8.7	8.7	8.7	8.7	8.7
>1000	13.9	17.1	17.6	17.6	17.6	17.6	17.6	17.6
>600	16.3	21.2	21.9	21.9	22.0	22.0	22.0	22.0
>300	16.6	21.6	22.4	22.5	22.5	22.5	22.5	22.5
>150	16.6	21.7	22.5	22.7	22.7	22.7	22.7	22.7
>0	16.6	21.8	22.7	22.9	22.9	22.9	22.9	22.9
TOTAL	362	475	495	498	500	500	500	500

TOTAL NUMBER OF OBS: 2179

PCT FREQ NH <5/8: 77.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.4	17.9	18.1	13.5	9.7	6.1	6.5	4.4	6.1	.1	2311

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	*	*	.0	.0	.1	.0	*	.4	
	TOT %	.1	.1	.0	*	.1	.1	.0	.1	.0	*	.5	
1<2	PCP	.0	.0	.0	.0	.1	*	*	.0	.0	.0	.1	
	NO PCP	*	.1	*	*	.1	.1	*	*	.0	.0	.5	
	TOT %	*	.1	*	*	.2	.2	.1	*	.0	.0	.6	
2<5	PCP	.0	*	.0	.1	.1	.1	.1	*	.0	.0	.4	
	NO PCP	*	.1	.1	.1	.2	.1	.0	.0	.0	.0	.6	
	TOT %	*	.1	.1	.1	.3	.2	.1	*	.0	.0	1.0	
5<10	PCP	.2	.3	.5	.4	1.1	.6	.3	.2	.0	.0	3.6	
	NO PCP	3.8	4.6	1.7	1.4	3.9	3.8	.9	1.2	.0	.6	21.9	
	TOT %	4.0	5.0	2.2	1.8	5.0	4.4	1.1	1.4	.0	.6	25.5	
10+	PCP	.1	.2	.3	.1	.3	.2	.0	*	.0	.0	1.1	
	NO PCP	13.4	14.2	8.1	7.4	11.3	9.4	7.6	3.2	.0	1.6	71.2	
	TOT %	13.5	14.4	8.4	7.5	11.6	9.6	7.6	3.2	.0	1.6	72.3	
TOT OBS													3221
TOT PCT													17.6 19.6 10.7 9.5 17.1 14.5 3.9 4.8 .0 2.3 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
1/2<1	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	*	.0	.0	*	.0	.0	*	.0	*	.1	
	11-21	.1	*	.0	*	*	.0	.0	*	.0	*	.2	
	22+	*	*	.0	*	*	.0	.0	.0	.0	*	.1	
	TOT %	.1	.1	.0	*	.1	*	.0	.1	.0	*	.4	
1<2	0-3	.0	*	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	*	.0	*	*	*	*	*	*	.0	.0	.2	
	11-21	.0	*	.0	*	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.2	
	TOT %	*	*	*	*	.2	.1	.1	*	.0	.0	.5	
2<5	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.1	*	*	.1	*	*	.0	.0	.0	.3	
	11-21	*	*	*	.1	.2	.1	*	*	.0	.0	.6	
	22+	.0	*	*	.1	.1	*	.0	.0	.0	.0	.3	
	TOT %	*	.2	.1	.1	.4	.3	.1	*	.0	.0	1.2	
5<10	0-3	.2	.4	.2	.1	.4	.3	.1	.2	.0	.5	2.3	
	4-10	.9	1.9	.7	.6	1.0	1.3	.5	.6	.0	.0	7.4	
	11-21	1.8	1.5	.8	.7	1.5	1.6	.3	.4	.0	.0	8.7	
	22+	.6	.5	.1	.3	1.5	.9	.1	*	.0	.0	4.1	
	TOT %	3.5	4.4	1.8	1.6	4.4	4.1	1.0	1.2	.0	.5	22.5	
10+	0-3	.7	.8	.7	.5	.5	.4	.3	.2	.0	1.6	5.8	
	4-10	5.6	7.1	4.2	3.6	4.6	3.1	1.7	2.1	.0	.0	32.1	
	11-21	6.2	6.3	2.8	2.7	4.9	4.4	.6	1.1	.0	.0	38.9	
	22+	1.2	1.4	.5	.5	2.5	2.1	.2	.1	.0	.0	8.5	
	TOT %	13.8	15.6	8.2	7.3	12.5	10.0	2.9	3.5	.0	1.6	75.3	
TOT OBS													4096
TOT PCT													17.4 20.3 10.2 9.1 17.6 14.5 4.0 4.8 .0 2.1 100.0

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.2	.2	3.1	7.8	5.1	1.9	.7	.2	.7	19.9	80.1	574
06009	.0	.0	.6	4.2	10.5	6.3	2.6	.4	.2	.4	25.0	75.0	543
12015	.3	.2	1.2	5.1	9.3	5.2	1.7	.2	.3	.8	24.4	75.6	591
18021	.5	.4	.2	4.2	6.5	5.5	.9	.5	.2	.2	19.1	80.9	566
TOT	5	4	12	95	194	125	40	10	5	12	502	1772	2274
PCT	.2	.2	.5	4.2	8.5	5.5	1.8	.4	.2	.5	22.1	77.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.3	.4	.7	20.8	77.7	904
06009	.0	.4	1.1	1.6	25.3	71.6	1215
12015	.0	.3	.5	1.1	19.8	78.3	931
18021	.1	.6	.3	1.3	26.7	71.0	1219
TOT	2	18	26	51	1006	3166	4269
PCT	.*	.4	.6	1.2	23.6	74.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.4	4.0	17.1	78.9	544
06009	.0	.6	6.4	19.1	74.4	528
12015	.4	1.9	7.5	17.9	74.6	570
18021	.6	1.1	6.1	14.2	79.7	537
TOT	5	22	132	372	1675	2179
PCT	.2	1.0	6.1	17.1	76.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.*	.0	.0	.0	1	.*
80/84	.0	.*	.1	.5	.3	.2	.1	.1	32	1.3
75/79	.0	.0	.*	1.3	3.8	6.3	5.1	2.1	446	18.7
70/74	.0	.0	.3	3.3	15.1	21.6	15.1	4.4	1437	60.1
65/69	.0	.0	.2	1.7	3.6	5.1	5.0	2.3	427	17.9
60/64	.0	.0	.0	.1	.3	.2	.7	.5	43	1.8
55/59	.0	.0	.0	.0	.0	.1	.*	.*	4	.2
TOTAL	0	1	16	154	558	804	629	226	2390	100.0
PCT	.0	.*	.7	6.5	23.3	33.6	26.3	9.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.*	.0	.0	.0	.0
.5	.4	.*	.*	.2	.1	.0	.1	.0	.0
5.5	4.3	1.2	1.0	1.6	2.1	.8	1.8	.0	.3
9.2	11.8	8.1	6.3	10.7	7.8	2.3	2.1	.0	1.7
.9	2.9	2.2	1.8	4.0	4.0	1.0	.6	.0	.5
.1	.2	.0	.1	.*	.5	.2	.1	.0	.2
.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
16.3	19.5	11.5	9.3	16.9	14.7	4.3	4.6	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	77	75	71	65	62	55	70.8	1165
06009	85	80	78	72	66	62	54	72.0	2051
12015	85	81	79	73	68	64	61	73.2	1171
18021	83	78	76	72	66	63	56	71.4	1753
TOT	85	80	77	72	66	63	54	71.8	6140

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.1	19.2	33.2	30.5	12.0	77	626
06009	.0	7.9	21.7	33.0	26.5	10.9	76	631
12015	.0	11.1	29.5	32.9	20.4	6.1	73	604
18021	.0	4.3	21.3	33.2	28.8	12.5	77	681
TOT	0	178	560	841	677	266	76	2542

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1955-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WU FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.0	.0	4	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.2	.0	.0	8	.0	.3
7/8	.0	.0	.0	.0	.0	.2	.2	.1	.0	15	.0	.5
6	.0	.0	.0	.0	.0	.1	.1	.1	.0	7	.0	.2
5	.0	.0	.0	.0	.1	.3	.3	.2	.0	25	.0	.8
4	.0	.0	.0	.0	.2	.3	.6	.2	.0	39	.0	1.2
3	.0	.0	.0	.0	.3	.7	.4	.0	.0	45	.0	1.4
2	.0	.0	.0	.0	.7	2.0	1.1	.1	.0	119	.0	3.6
1	.0	.0	.0	.1	1.5	4.1	1.0	.1	.0	206	.1	6.6
0	.0	.0	.1	.1	2.9	7.9	.9	.1	.0	372	.1	12.0
-1	.0	.0	.0	.3	5.0	6.3	.6	.0	.0	379	.0	12.2
-2	.0	.0	.1	.8	7.3	7.3	.5	.0	.0	494	.0	16.0
-3	.0	.0	.0	.8	7.2	3.5	.2	.0	.0	359	.1	11.5
-4	.0	.0	.0	2.1	6.3	2.2	.2	.0	.0	333	.0	10.8
-5	.0	.0	.1	2.2	5.0	1.5	.0	.0	.0	273	.1	8.8
-6	.0	.0	.2	2.0	2.0	.6	.0	.0	.0	147	.0	4.7
-7/-8	.0	.0	.4	2.0	2.3	.4	.0	.0	.0	158	.0	5.1
-8/-10	.0	.1	.5	1.2	.7	.1	.0	.0	.0	81	.0	2.6
-11/-13	.0	.0	.3	.1	.1	.0	.0	.0	.0	17	.0	.6
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	.1	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	2	6	54	364	1286	1160	190	25	1	3088	17	3071
PCT	.1	.2	1.8	11.8	41.6	37.5	6.2	.8	.0	100.0	.6	99.4

PERIOD: (OVER-ALL) 1953-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.2	.4	1.4	.1	.0	.0	.0	1.9
1-2	.6	4.1	.8	.3	.0	.0	5.5	.7	4.4	.8	.0	.0	.0	5.6
3-4	.0	1.9	3.3	.5	.0	.0	5.6	.1	1.8	2.3	.2	.0	.0	4.3
5-6	.0	.4	1.9	.2	.1	.0	2.6	.0	.8	2.2	.3	.0	.0	3.3
7	.0	.0	1.3	.4	.0	.0	1.7	.0	.1	1.1	.7	.0	.0	1.8
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	.4	.6	.0	.0	.9
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.1	.0	.3
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	7.2	7.6	1.6	.1	.0	17.4	.6	8.6	6.8	2.0	.1	.0	18.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.0	.0	.0	.0	.9	.2	.4	.0	.0	.0	.0	.6
1-2	.4	3.3	.5	.0	.0	.0	4.2	.2	2.2	.4	.0	.0	.0	2.8
3-4	.0	1.7	1.9	.0	.0	.0	3.6	.0	1.4	1.4	.0	.0	.0	2.8
5-6	.0	.2	1.4	.4	.0	.0	1.9	.0	.4	1.2	.5	.0	.0	2.1
7	.0	.1	.6	.3	.0	.0	1.0	.0	.1	.9	.3	.0	.0	1.2
8-9	.0	.1	.4	.1	.0	.0	.7	.0	.1	.4	.0	.0	.0	.6
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.1	4.7	1.2	.0	.0	12.7	.4	4.6	4.4	1.0	.0	.0	10.4

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	SW								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	.6	.1	.0	.0	.0	.8		.2	.4	.0	.0	.0	.0	.5		
1-2	.1	2.9	.4	.0	.0	.0	3.4		.3	1.9	1.1	.0	.0	.0	3.3		
3-4	.1	1.5	2.7	.1	.0	.0	4.4		.0	1.5	2.4	.1	.0	.0	4.0		
5-6	.0	.3	1.3	.4	.0	.0	2.0		.0	.1	1.8	.9	.1	.0	2.9		
7	.0	.2	1.1	.7	.1	.0	2.1		.0	.1	1.4	.3	.1	.0	1.9		
8-9	.0	.0	.3	.7	.2	.0	1.1		.0	.0	.4	.4	.0	.0	.8		
10-11	.0	.0	.1	.4	.1	.0	.5		.0	.0	.1	.1	.1	.0	.2		
12	.0	.0	.0	.3	.1	.0	.5		.0	.0	.2	.1	.1	.0	.5		
13-16	.0	.0	.0	.3	.1	.0	.4		.0	.0	.0	.1	.1	.0	.2		
17-19	.0	.0	.0	.1	.0	.0	.1		.0	.0	.0	.0	.1	.0	.1		
20-22	.0	.0	.0	.0	.1	.0	.1		.0	.0	.0	.0	.0	.1	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.3	5.5	5.8	3.0	.7	.0	15.4		.5	4.0	7.3	2.1	.7	.0	14.6		

HGT	W								NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	.1	.0	.0	.0	.0	.3		.2	.3	.0	.0	.0	.0	.3		
1-2	.2	2.3	.1	.0	.0	.0	2.6		.2	1.5	.1	.0	.0	.0	1.6		
3-4	.0	.3	.3	.0	.0	.0	.5		.0	.5	1.0	.0	.0	.0	1.5		
5-6	.0	.0	.2	.1	.0	.0	.3		.0	.0	.5	.0	.0	.0	.5		
7	.0	.0	.0	.0	.0	.0	.0		.0	.1	.1	.1	.0	.0	.3		
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.1	.0	.1		.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.2	.0	.0	.2		.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.4	2.7	.6	.2	.1	.0	4.0		.2	2.4	1.7	.1	.0	.0	4.3		96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	4.9	.1	.0	.0	.0	10.9	
1-2	2.4	22.9	4.2	.0	.0	.0	29.4	
3-4	.1	10.4	14.8	.8	.0	.0	26.1	
5-6	.0	2.2	10.2	2.7	.1	.0	15.2	
7	.0	.6	6.3	2.6	.2	.0	9.7	
8-9	.0	.3	2.0	2.2	.2	.0	4.7	
10-11	.0	.0	.1	1.5	.2	.0	1.9	
12	.0	.0	.2	.6	.3	.0	1.1	
13-16	.0	.0	.0	.6	.1	.0	.7	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.4	41.3	37.9	11.0	1.5	.0	100.0	1437

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	7.2	10.6	6.5	3.3	2.1	1.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	609	4
6-7	.0	.1	4.6	7.5	5.4	2.7	2.0	1.3	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	457	6
8-9	.1	.3	1.8	3.5	4.3	3.0	2.5	1.3	1.1	.2	.2	.3	.2	.0	.0	.0	.0	.0	.0	349	8
10-11	.0	.3	.3	1.0	1.6	1.5	1.2	.6	.8	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	153	9
12-13	.0	.0	.7	.6	.7	.4	1.1	.5	.5	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	99	10
13	.0	.0	.0	.4	.5	.2	.2	.1	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	31	10
INDET	2.0	1.0	1.0	2.1	2.0	.8	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	5
TOTAL	56	167	358	405	397	201	164	81	65	21	15	10	4	0	0	0	0	0	0	1884	6
PCT	3.0	8.9	19.0	21.5	17.9	10.7	8.7	4.3	3.5	1.1	.8	.5	.2	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1988-1972
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.4	1.1	.1	.0	.0	.0	.0	2.6	.5	2.8	.7	.0	1.2	.0	92.8
NE	.7	1.2	.5	.0	.0	.0	.0	2.4	1.8	1.6	1.1	.0	.9	.2	92.3
E	3.1	4.2	.0	.0	.0	.0	.0	7.3	1.6	4.1	2.3	.0	.2	.0	86.4
SE	3.7	5.7	1.1	.0	.0	.0	.0	10.5	3.2	.8	.3	.0	.8	.0	85.0
S	2.8	5.2	.3	.0	.0	.0	.2	8.5	4.8	3.3	1.0	.0	.1	.0	83.1
SW	2.0	4.5	.7	.0	.0	.0	.0	7.2	4.1	3.2	.9	.0	.6	.0	84.6
W	2.8	3.2	.0	.0	.0	.0	.0	6.0	2.2	4.3	.6	.0	.6	.0	86.9
NW	.7	.9	.0	.0	.0	.0	.0	1.5	1.0	4.0	1.1	.0	2.0	.0	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.2	.0	.0	.0	.0	1.2	1.2	4.9	1.2	.0	.0	.0	91.5
TOT PCT	2.0	3.1	.4	.0	.0	.0	*	5.5	2.5	2.9	.9	.0	.7	*	87.9
TOT OBS:	3274														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.1	3.3	.6	.0	.0	.0	.0	5.9	2.8	6.1	.8	.0	.3	.1	84.7
06009	2.2	3.1	.3	.0	.0	.0	.0	5.5	2.4	.3	1.3	.0	1.3	.0	89.3
12015	1.3	3.7	.5	.0	.0	.0	.1	5.6	2.7	.6	.6	.0	1.0	.0	90.0
18021	2.2	2.3	.3	.0	.0	.0	.0	4.8	2.0	5.3	1.1	.0	.4	.0	87.6
TOT PCT	2.0	3.1	.4	.0	.0	.0	*	5.5	2.4	2.9	1.0	.0	.8	*	88.0
TOT OBS:	3426														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	6.0	7.6	2.6	.4	*		17.3	14.3		19.4	19.5	19.1	15.7	18.3	14.4	16.4	16.2
NE	.9	7.5	6.1	1.4	.1	.0		16.0	11.7		15.1	15.2	11.7	14.8	16.5	18.1	20.0	17.6
E	.9	4.2	2.5	.3	.1	.0		8.0	10.1		5.6	5.9	6.3	7.6	6.5	12.3	9.5	10.1
SE	.6	3.5	3.2	1.0	.2	*		8.8	12.8		9.9	6.8	8.0	9.0	9.2	9.2	9.6	8.6
S	.9	5.5	6.5	3.4	.6	.1		17.0	15.2		17.8	15.8	16.5	17.3	17.1	17.8	17.2	15.7
SW	.9	5.6	5.8	3.9	1.0	.3		17.5	16.6		17.0	20.1	18.4	18.3	17.5	17.4	15.2	16.5
W	.4	2.9	1.3	.6	.1	*		5.6	11.3		5.1	5.4	7.4	7.4	6.0	3.5	4.0	4.6
NW	.6	3.6	2.3	.7	*	*		7.1	11.2		5.7	8.0	10.0	7.5	7.4	5.8	4.8	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		4.4	3.3	2.6	2.4	1.5	1.5	3.3	2.3
TOT OBS	551	2442	2209	863	158	23	6248		13.2		568	573	1047	1129	803	594	1118	616
TOT PCT	8.8	39.1	35.4	13.8	2.5	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	2.8	8.0	5.3	1.1	.1		17.3	14.3	19.5	17.4	16.4	16.3	
NE	3.8	8.8	3.0	.5	.0		16.0	11.7	15.1	13.3	17.3	19.2	
E	2.6	4.2	1.1	.2	*		8.0	10.1	5.8	7.0	9.4	9.7	
SE	2.0	4.4	1.9	.5	.1		8.8	12.8	8.4	8.5	9.2	9.3	
S	3.1	7.0	4.9	1.8	.2		17.0	15.2	16.8	16.9	17.4	17.0	
SW	3.1	6.5	5.0	2.2	.7		17.5	16.6	18.6	18.3	17.5	15.6	
W	2.2	2.0	1.0	.3	.1		5.6	11.3	5.2	7.4	4.7	4.2	
NW	2.0	3.6	1.3	.2	*		7.1	11.2	6.9	8.7	6.6	5.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.7						2.7	.0	3.9	2.5	1.5	2.9	
TOT OBS	1518	2774	1467	419	70	6248		13.2	1141	2176	1197	1734	
TOT PCT	24.3	44.4	23.5	6.7	1.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1858-1972
(COVER-ALL) 1855-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURLY	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.9	5.4	39.1	34.8	14.2	2.2	.4	13.0	100.0	1141
0600	2.5	7.0	39.4	34.5	13.6	2.4	.6	13.1	100.0	2176
1200	1.5	5.3	38.5	38.2	13.5	2.8	.3	13.6	100.0	1197
1800	2.9	6.1	39.1	34.9	14.1	2.7	.2	13.2	100.0	1734
TOT	167	384	2442	2209	863	158	25	13.2		6248
PCT	2.7	6.1	39.1	35.4	13.8	2.5	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	12.7	3.5	2.3	.5		2.0
NE	9.5	3.1	2.2	.4		2.3
E	3.2	1.3	1.9	.3		3.2
SE	2.4	2.4	2.3	.0		3.9
S	6.2	4.5	4.4	2.7		3.7
SW	6.8	4.2	5.2	1.6		3.6
W	3.0	.9	1.4	.7		2.9
NW	5.1	1.4	.7	.1		1.8
VAR	.0	.0	.0	.0		.0
CALM	1.9	.4	.6	.1	2095	2.2
TOT OBS	1061	455	441	138		2.9
TOT PCT	50.6	21.7	21.1	6.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.3	.8	.5	.2	*	*	.1	16.8	
NE	.0	.0	*	.2	.7	.6	.1	*	*	.1	13.7	
E	.0	.0	*	.3	.4	.4	.2	*	.0	.1	5.2	
SE	.0	*	.1	.8	.7	.2	.1	.1	.0	.0	6.0	
S	.0	*		1.5	2.2	1.1	.4	*	*	.0	11.9	
SW	.0	.0	.2	1.1	2.2	1.3	.4	.1	.0	.0	12.3	
W	.0	.0	.0	.2	.5	.3	*	.0	.0	.0	4.5	
NW	.0	*	*	.1	.3	.0	.1	.0	.0	.0	6.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	*	.0	*	.0	2.5	
TOT OBS	0	2	11	94	168	97	36	8	3	6	1670	
TOT PCT	.0	.1	.5	4.5	8.0	4.6	1.7	.4	.1	.3	79.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	* OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >5000	.4	.5	.5	.5	.5	.5	.5	.5
* OR >4000	.6	.8	.8	.8	.8	.8	.8	.8
* OR >3500	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
* OR >2000	6.2	6.9	6.9	7.0	7.0	7.0	7.0	7.0
* OR >1000	12.5	14.4	14.9	15.0	15.0	15.0	15.0	15.0
* OR >500	15.7	18.7	19.4	19.5	19.5	19.5	19.6	19.6
* OR >300	15.8	19.2	19.9	20.0	20.0	20.0	20.1	20.1
* OR >150	15.8	19.2	20.0	20.1	20.1	20.1	20.2	20.2
* OR >0	15.8	19.2	20.0	20.2	20.2	20.2	20.2	20.2
TOTAL	342	415	433	436	436	436	437	437

TOTAL NUMBER OF OBS: 2161

PCT FREQ NH <5/8: 79.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 DBSCD	TOTAL OBS
	27.1	19.0	15.4	12.7	9.8	7.0	5.3	3.7	4.9	2284

PERIOD: (PRIMARY) 1889-1972
(OVER-ALL) 1855-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.1	.2	.2	*	.1	.1	*	.1	.0	*	.7	
	TOT %	.1	.2	.2	*	.1	.1	*	.1	.0	*	.7	
1<2	PCP	.0	.0	*	*	.1	*	.0	.0	.0	.0	.2	
	NO PCP	.1	.1	.1	*	.1	*	.1	.1	.0	.0	.5	
	TOT %	.1	.1	.1	.1	.2	.1	*	.1	.0	.0	.7	
2<5	PCP	*	*	.0	*	.1	.1	.0	*	.0	.0	.3	
	NO PCP	.1	*	*	.1	.2	.2	*	*	.0	.0	.7	
	TOT %	.2	.1	*	.1	.3	.3	*	*	.0	.0	1.0	
5<10	PCP	.3	.2	.4	.5	1.0	.7	.2	.1	.0	.0	3.4	
	NO PCP	3.4	2.9	1.3	1.2	2.6	4.1	.9	1.2	.0	.3	17.9	
	TOT %	3.6	3.1	1.7	1.7	3.6	4.8	1.1	1.3	.0	.3	21.3	
10+	PCP	.2	.2	.1	.3	.2	.5	.1	.0	.0	*	1.4	
	NO PCP	14.0	12.0	5.1	6.9	12.5	12.2	4.2	5.6	.0	2.2	74.6	
	TOT %	14.2	12.1	5.2	7.2	12.7	12.7	4.3	5.6	.0	2.2	76.7	
TOT OBS													
TOT PCT													
		18.2	15.6	7.2	9.2	16.9	17.9	5.5	7.0	.0	2.5	100.0	3273

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	*	*	*	.0	.0	*	.1	
	4-10	*	*	.1	*	*	*	*	*	.0	*	.3	
	11-21	*	.1	*	.0	*	.0	.0	*	.0	.2		
	22+	*	.0	.0	.0	*	.0	.0	.0	.0	*		
	TOT %	.1	.1	.1	*	.1	*	*	.1	.0	*	.6	
1<2	0-3	*	*	.0	.0	.0	.0	.0	*	.0	.0	.1	
	4-10	*	*	*	*	*	*	*	*	.0	.0	.2	
	11-21	*	*	*	*	.1	*	.0	.0	.0	.2		
	22+	.0	.0	*	*	*	*	.0	*	.0	.2		
	TOT %	.1	.1	.1	.1	.2	.1	*	*	.0	.6		
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.1	*	*	.1	.2	*	*	.0	.4		
	11-21	.1	*	*	*	.2	.2	*	*	.0	.6		
	22+	*	.0	.0	*	.1	.2	.0	.0	.0	.4		
	TOT %	.1	.1	.1	.1	.4	.5	.1	*	.0	1.4		
5<10	0-3	.1	.1	.2	.1	.2	.2	.1	.1	.0	.2	1.3	
	4-10	.9	1.5	.7	.4	.8	1.4	.5	.5	.0	.6		
	11-21	1.5	.8	.6	.7	1.2	1.3	.2	.4	.0	.7		
	22+	.7	.3	.1	.4	1.2	1.5	.2	.1	.0	.6		
	TOT %	3.2	2.7	1.5	1.5	3.4	4.4	1.0	1.2	.0	.2	19.2	
10+	0-3	.7	.7	.6	.3	.5	.4	.4	.3	.0	2.3	6.2	
	4-10	5.6	6.1	3.4	3.5	4.5	4.4	2.5	2.9	.0	32.9		
	11-21	6.2	5.2	1.8	2.7	5.1	4.9	1.1	1.8	.0	28.9		
	22+	1.8	.9	.1	.6	2.6	3.3	.4	.3	.0	10.0		
	TOT %	14.2	12.8	5.9	7.2	12.8	13.0	4.4	5.4	.0	2.3	78.0	
TOT OBS													
TOT PCT													
		17.7	15.8	7.7	8.9	16.9	18.1	5.6	6.7	.0	2.5	100.0	4017

PERIOD: (PRIMARY) 1988-1972
(OVER-ALL) 1859-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.2	.0	.2	3.7	7.6	4.3	1.3	.2	.2	.4	17.9	82.1	541
06009	.0	.0	.5	6.4	8.8	5.2	2.1	.9	.0	.4	24.3	75.7	559
12015	.0	.2	.7	3.5	8.5	4.8	1.5	.0	.3	.2	19.7	80.3	598
18021	.0	.2	.6	4.0	5.7	3.1	1.5	.4	.0	.4	15.8	84.2	545
TOT	1	2	11	99	172	98	36	8	3	7	437	1806	2243
PCT	*	.1	.5	4.4	7.7	4.4	1.6	.4	.1	.3	19.5	80.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.5	.5	1.6	16.9	80.4	853
06009	.0	1.1	1.0	1.5	20.7	75.7	1208
12015	.1	.3	.6	1.3	17.9	79.7	938
18021	.0	.8	.4	1.3	24.3	73.3	1171
TOT	2	29	27	59	846	3207	4170
PCT	*	.7	.6	1.4	20.3	76.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOURL (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	.4	5.2	14.0	80.8	520
06009	.0	.6	8.7	16.9	74.4	540
12015	.0	1.0	5.5	15.3	79.2	582
18021	.0	.8	5.8	11.4	82.9	519
TOT	1	15	136	312	1713	2161
PCT	*	.7	6.3	14.4	79.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	*	.1	.2	.2	*	.0	.0	13	.6
75/79	.0	.0	.2	.5	1.1	1.6	1.0	.1	104	4.6
70/74	.0	*	.5	3.9	12.0	17.0	9.3	3.2	1042	46.0
65/69	.0	*	.5	5.3	12.0	10.6	6.9	2.2	850	37.5
60/64	.0	.0	.1	1.4	2.5	3.1	1.9	1.4	237	10.5
55/59	.0	.0	.0	.0	.1	.2	.4	.2	20	.9
TOTAL	0	3	33	256	632	739	442	161	2266	100.0
PCT	.0	.1	1.5	11.3	27.9	32.6	19.5	7.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.1	.0	*	.1	.1	.0	.1	.0	*	
1.6	.8	.3	.2	.5	.4	.2	.7	.0	.1	
12.7	9.5	3.2	3.1	5.1	5.1	1.9	3.7	.0	1.7	
4.8	5.2	2.4	3.6	7.5	8.8	2.4	1.9	.0	1.0	
.5	.4	.5	.8	3.0	3.8	.7	.4	.0	.4	
*	.1	.0	*	.1	.3	.1	.1	.0	.2	
19.7	16.1	6.3	7.7	16.2	18.5	5.3	6.9	.0	3.4	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	75	73	69	62	60	55	68.2	1158
06009	84	78	75	70	63	59	56	69.4	2175
12015	84	79	76	71	64	61	54	70.5	1196
18021	78	75	73	69	63	60	54	68.8	1745
TOT	85	77	74	69	63	60	54	69.2	6274

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.4	23.6	34.0	24.6	8.3	74	564
06009	.0	14.0	26.9	31.5	19.5	8.1	72	616
12015	.0	17.3	33.2	29.5	14.9	5.1	70	584
18021	.0	9.6	24.2	33.1	21.8	9.3	74	614
TOT	0	299	654	761	480	184	73	2378

PERIOD: (PRIMARY) 1888-1972
(OVER-ALL) 1855-1972

JUNE

TABLE 17

AREA 0022 DURBAN
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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53	57	61	65	69	73	77	81	TOT	W FOG	WD FOG
	56	60	64	68	72	76	80	84			
14/16	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.1	.0	.1		5	.0	.2
9/10	.0	.0	.0	.0	*	*	.1	.1	8	*	.2
7/8	.0	.0	.0	.0	.1	.2	.2	.1	15	*	.4
6	.0	.0	.0	.1	.2	.0	.2	*	13	.0	.4
5	.0	.0	.0	*	.2	.4	.2	*	26	.0	.8
4	.0	.0	.0	.2	.3	.4	.3	.0	40	.0	1.3
3	.0	.0	.0	*	.3	.7	.3	.0	42	*	1.3
2	.0	.0	.1	.2	1.3	1.7	.1	.0	110	.1	3.4
1	.0	.0	.1	.5	3.2	2.4	.2	*	206	.1	6.5
0	.0	.0	.2	1.8	6.7	3.7	.2	.0	400	.1	12.6
-1	.0	*	.2	2.4	7.1	2.1	.0	.0	371	.1	11.7
-2	.0	*	.6	3.6	8.1	1.6	.0	.0	439	.3	13.7
-3	.0	.1	.5	3.9	6.3	.8	.0	.0	369	.1	11.6
-4	.0	*	.7	4.2	4.9	.6	.0	.0	326	.1	10.3
-5	.0	*	1.4	4.7	2.9	.4	.0	.0	296	*	9.4
-6	.0	.1	1.1	2.5	1.1	.1	.0	.0	154	*	4.9
-7/-8	.0	.2	2.4	2.7	.6	.0	.0	.0	187	*	5.9
-9/-10	*	.3	1.7	.9	.2	*	.0	.0	97	.0	3.1
-11/-13	*	.3	.6	.3	*	.0	.0	.0	36	.1	1.1
-14/-16	*	.1	*	.1	.0	.0	.0	.0	6	.0	.2
TOTAL	3		300		1375		56		3149	32	3117
PCT	.1	1.2	9.5	28.2	43.7	15.2	1.8	.3	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.9	.0	.0	.0	.0	1.1	.2	1.1	.1	.0	.0	.0	1.4
1-2	.4	4.1	1.4	.0	.0	.0	5.9	.3	3.8	1.1	.0	.0	.0	5.2
3-4	.0	2.2	3.6	.2	.0	.0	6.0	.1	1.8	2.4	.2	.0	.0	4.5
5-6	.0	.3	1.9	.8	.0	.0	2.9	.0	.2	1.9	.4	.1	.0	2.6
7	.0	.0	.9	.5	.0	.0	1.4	.0	.0	.7	.6	.1	.0	1.4
8-9	.0	.0	.6	.4	.0	.0	1.0	.0	.0	.4	.3	.0	.0	.7
10-11	.0	.0	.1	.8	.3	.0	1.2	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.6	8.6	2.8	.3	.0	19.8	.5	6.9	6.7	1.6	.1	.0	15.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.2	.0	.0	.0	.0	.5	.2	.7	.0	.0	.0	.0	.9
1-2	.0	2.3	.1	.0	.0	.0	2.4	*	1.7	.2	.0	.0	.0	1.9
3-4	.1	.8	.8	.1	.0	.0	1.8	.0	.7	1.1	*	.0	.0	1.8
5-6	.0	.4	.7	.0	.0	.0	1.1	.0	.2	.7	.2	.0	.0	1.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	.4	.2	.0	.0	.7
8-9	.0	.0	.1	.1	.0	.0	.1	.0	.1	.1	.2	*	.0	.5
10-11	.0	.0	.1	.1	.0	.0	.1	.0	.0	.1	.3	.1	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.7	1.8	.2	.0	.0	6.1	.2	3.4	2.6	.9	.2	.0	7.4

PERIOD: (OVER-ALL) 1963-1972

JUNE

AREA 0022 DURBAN
28.75 32.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.7	.0	.0	.0	.0		.9	.1	.5	.1	.0	.0	.0		.7
1-2	.2	2.4	.6	.0	.0	.0		3.2	.0	2.7	.9	.0	.0	.0		3.5
3-4	.0	1.4	2.2	.3	.0	.0		3.8	.0	1.3	2.8	.3	.0	.0		4.4
5-6	.0	.2	2.1	.5	.1	.0		2.9	.0	.8	2.1	.8	.0	.0		3.7
7	.0	.1	.9	.9	.2	.0		2.2	.0	.0	1.5	1.4	.1	.0		3.0
8-9	.0	.0	.3	.6	.1	.0		1.0	.0	.1	.3	1.2	.1	.1		1.8
10-11	.0	.0	.3	.9	.1	.0		1.3	.0	.0	.1	.5	.1	.0		.8
12	.0	.0	.0	.2	.1	.0		.2	.0	.0	.0	.2	.1	.0		.3
13-16	.0	.0	.1	.2	.1	.0		.3	.0	.0	.0	.3	.1	.0		.4
17-19	.0	.0	.0	.0	.1	.0		.1	.0	.0	.0	.1	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.1	.2	.1	.0		.3	.0	.0	.0	.1	.0	.0		.1
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.1		.1
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	4.8	6.6	3.9	.6	.0		16.2	.1	5.4	7.8	5.0	.5	.1		18.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.7	.0	.0	.0	.0		.8	.1	.7	.1	.0	.0	.0		.9	
1-2	.2	1.6	.2	.0	.0	.0		2.0	.1	2.0	.4	.0	.0	.0		2.6	
3-4	.0	.9	1.0	.1	.0	.0		1.9	.0	.7	1.1	.0	.0	.0		1.7	
5-6	.0	.2	.3	.0	.0	.0		.5	.0	.2	.9	.2	.0	.0		1.3	
7	.0	.1	.3	.1	.0	.0		.4	.0	.0	.3	.2	.0	.0		.4	
8-9	.0	.0	.1	.1	.0	.0		.2	.0	.0	.0	.1	.0	.0		.1	
10-11	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.4	1.9	.4	.0	.0		6.0	.2	3.5	2.9	.5	.0	.0		7.1	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	5.5	.3	.0	.0	.0	10.8	
1-2	1.4	20.3	4.8	.0	.0	.0	26.6	
3-4	.1	9.5	14.8	1.1	.0	.0	25.5	
5-6	.0	2.5	10.4	2.8	.2	.0	15.9	
7	.0	.3	5.1	3.7	.3	.0	9.5	
8-9	.0	.1	1.9	3.0	.1	.1	5.3	
10-11	.0	.0	.7	2.7	.6	.0	4.0	
12	.0	.0	.0	.4	.1	.0	.6	
13-16	.0	.0	.1	.8	.2	.0	1.1	
17-19	.0	.0	.0	.1	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.1	.3	.1	.0	.5	
26-32	.0	.0	.0	.0	.0	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	38.2	38.2	15.0	1.8	.1	100.0	1449

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	5.3	8.7	6.3	3.2	1.4	1.4	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	511	4
6-7	.0	.7	5.4	8.1	5.7	3.5	2.3	.3	1.4	.1	.1	.0	.3	.1	.0	.0	.0	.0	.0	508	7
8-9	.0	.4	1.5	2.9	3.4	2.6	2.7	1.2	1.6	.5	.3	.4	.0	.0	.0	.0	.0	.0	.0	319	9
10-11	.0	.1	.5	.9	1.2	1.5	.9	1.2	1.4	.7	.4	.1	.1	.1	.0	.0	.0	.0	.0	165	10
12-13	.0	.0	.4	.4	.7	.9	.5	.4	.4	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	83	10
>13	.0	.0	.0	.1	.1	.2	.1	.2	.4	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	27	13
INDET	2.0	.7	1.5	2.4	1.5	.7	.8	.5	.8	.2	.0	.2	.1	.0	.0	.0	.0	.0	.0	209	6
TOTAL	58	131	327	387	285	196	160	76	113	39	25	14	8	3	0	0	0	0	0	1822	7
PCT	3.2	7.2	17.9	21.2	15.6	10.8	8.8	4.2	6.2	2.1	1.4	.8	.4	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1855-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	.4	.5	.0	.0	.0	.0	.0	.8	.5	.8	.5	.0	1.4	.1	96.0	
NE	1.0	.5	.1	.0	.0	.0	.0	1.6	.7	1.0	.0	.0	1.0	.2	95.9	
E	1.2	2.0	.0	.0	.0	.0	.0	3.1	1.9	1.3	.0	.0	.6	.0	93.1	
SE	1.9	3.0	.3	.0	.0	.0	.0	5.3	5.1	1.4	.0	.0	.3	.0	88.4	
S	2.7	4.4	.8	.0	.0	.0	.1	7.7	4.5	.9	.1	.0	.8	.0	86.3	
SW	2.0	4.2	.7	.0	.0	.0	.1	7.1	4.3	1.9	.5	.0	1.2	.0	85.3	
W	1.3	3.5	.4	.0	.0	.0	.7	6.0	.0	.9	1.1	.0	3.4	.0	88.6	
NW	.7	.5	.0	.0	.0	.0	.0	1.2	.0	.5	.2	.0	1.0	.0	97.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	2.0	1.0	.0	.0	.0	.0	3.1	1.0	3.1	1.0	.0	4.1	.0	87.8	
TOT PCT	1.3	2.1	.3	.0	.0	.0	.1	3.8	2.2	1.2	.3	.0	1.1	.1	91.7	
TOT OBS:	3739															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	1.2	1.8	.5	.0	.0	.0	.0	3.4	2.4	2.2	.1	.0	.9	.1	91.2
06609	1.4	2.3	.5	.0	.0	.0	.1	4.2	2.2	.3	.4	.0	1.2	.1	91.6
12615	1.1	1.7	.1	.0	.0	.0	.0	2.9	2.1	.1	.3	.0	1.6	.0	93.0
18621	1.9	2.3	.3	.0	.0	.0	.1	4.6	2.1	2.3	.4	.0	1.0	.0	90.3
TOT PCT	1.4	2.1	.3	.0	.0	.0	.1	3.8	2.2	1.2	.3	.0	1.2	.1	91.5
TOT OBS:	3682														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.7	6.5	8.9	3.0	.4	*		19.5	14.4	22.0	20.7	24.2	17.4	21.1	15.5	16.4	18.9	
NE	.9	8.8	8.6	2.2	.3	.0		20.8	12.8	24.9	17.5	16.4	16.7	20.3	25.5	24.0	24.5	
E	.7	4.4	2.1	.2	.1	.0		7.5	9.8	7.0	5.0	5.8	7.2	6.8	10.1	9.5	8.0	
SE	.5	4.4	2.9	.8	.1	*		8.8	11.7	8.2	6.8	8.6	8.2	10.7	8.2	9.9	8.5	
S	.8	5.2	6.3	3.1	.7	*		16.1	15.4	15.3	15.7	14.2	17.8	16.6	17.2	17.5	13.9	
SW	.6	4.5	5.8	2.3	1.0	.1		14.4	16.2	12.5	17.8	13.0	17.8	14.2	15.1	12.0	14.1	
W	.4	2.1	1.0	.3	.1	.1		4.1	11.5	2.5	5.2	6.2	4.9	3.0	2.7	3.2	3.7	
NW	.5	2.9	2.0	.5	*	*		6.0	11.2	4.6	7.9	9.2	7.0	5.2	4.7	3.9	4.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.8							2.8	.0	3.1	3.5	2.2	3.1	2.0	1.0	3.6	3.5	
TOT DRS	524	2516	2448	803	178	20	6489		13.2	667	570	1114	1050	688	596	1209	595	
TOT PCT	8.1	38.8	37.7	12.4	2.7	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	2.9	9.4	5.8	1.3	.1		19.5	14.4		21.4	20.9	18.5	17.2
NE	4.1	10.9	4.7	1.0	*		20.8	12.8		21.5	16.6	22.7	24.2
E	2.5	4.1	.8	.1	*		7.5	9.8		6.0	6.5	8.3	9.0
SE	2.6	4.3	1.5	.3	.1		8.8	11.7		7.6	8.4	9.5	9.5
S	3.0	6.5	4.7	1.6	.4		16.1	15.4		15.4	15.9	16.9	16.3
SW	2.3	6.1	3.9	1.6	.5		14.4	16.2		14.9	15.3	14.6	12.7
W	1.5	1.9	.4	.3	.1		4.1	11.5		3.8	5.6	2.9	3.4
NW	1.9	2.8	1.2	.2	*		6.0	11.2		6.1	8.1	5.0	4.2
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	2.8						2.8	.0		3.3	2.7	1.6	3.5
TOT DRS	1521	2990	1490	414	74	6489		13.2		1237	2164	1284	1804
TOT PCT	23.4	46.1	23.0	6.4	1.1		100.0			100.0	100.0	100.0	100.0

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	34-47	48+			
000603	3.3	4.5	41.1	37.2	10.7	2.7	.4	13.0	100.0	1237
050009	2.7	5.3	38.4	37.2	17.8	3.3	.4	13.4	100.0	2164
100615	1.6	5.2	37.7	37.9	40.0	9.2	.2	13.3	100.0	1804
150621	2.7	5.5	38.2	37.1	12.6	2.5	.3	13.0	100.0	1286
TOT	183	341	2516	2448	803	178	20	13.2		6489
PCT	2.8	5.3	38.8	37.7	12.4	2.7	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)						
BY WIND DIRECTION						
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	15.5	3.8	2.5	.7		1.9
NE	13.4	3.5	3.6	.9		2.3
E	3.6	1.6	1.7	.5		3.1
SE	2.8	2.6	1.1	1.1		4.1
S	4.8	4.2	4.4	2.3		4.1
SW	4.3	2.0	3.5	1.9		4.0
W	1.9	.5	.6	.3		2.9
NW	3.9	1.1	.6	.1		1.9
VAR	.0	.0	.0	.0		.0
CALM	1.8	.4	.3	.1		1.9
TOT OBS	1321	502	517	201	2541	
TOT PCT	52.0	19.8	20.3	7.9	100.0	2.9

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											
000 149	150 249	300 599	600 1999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.1	.2	1.0	.6	.7	*	.1	.1	20.3	
*	.0	.1	.5	1.5	.7	.7	.1	*	*	18.3	
.0	.0	*	.4	1.7	.3	.1	.1	.0	*	5.6	
.0	.0	.1	.6	1.3	.8	.3	.1	*	*	6.2	
.0	.1	.3	1.1	2.3	.8	.4	.1	.0	*	10.5	
*	.0	.1	.9	1.8	.7	.4	.1	.0	*	7.5	
.0	.0	.0	.3	1.2	.1	.1	.0	.0	.0	2.7	
.0	.0	.0	.1	1.1	.0	*	*	.1	.0	5.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0.0	
.0	.0	.0	*	.3	*	.0	.0	.0	.0	2.3	
.1	3	17	104	235	105	44	15	7	6	2003	2541
2	1	7	41	9.2	4.1	1.7	.6	.3	.2	78.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >3500	2.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9
OR >2000	6.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0
OR >1000	16.1	16.1	16.3	16.3	16.3	16.3	16.3	16.3
OR >500	20.3	19.9	20.3	20.3	20.3	20.3	20.3	20.3
OR >300	21.0	20.4	20.9	20.9	21.0	21.0	21.0	21.0
OR >150	21.1	20.5	21.0	21.1	21.1	21.1	21.1	21.1
OR >0	21.2	20.5	21.1	21.1	21.2	21.2	21.2	21.2
TOTAL	446	536	552	552	553	553	553	553

TOTAL NUMBER OF OBS: 2614

PCT FREQ NH <5/81 78.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)										TOTAL
0	1	2	3	4	5	6	7	8	DBSCD	CBS
26.3	16.5	15.5	11.7	8.3	5.2	6.2	4.1	6.0	.1	274E

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1855-1973

JULY

AREA 0022 DURBAN
28.75 33.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	*	*	.1	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.1	.0	.0	.0	*	*	*	*	.0	*	.3	.3
	TOT %	.1	.0	*	*	.1	*	*	*	.0	*	.4	.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	*	.0	.1	.0	*	.0	.0	.0	.3	.3
	TOT %	.1	.1	*	.0	.1	.0	*	.0	.0	.0	.3	.3
2<5	PCP	.0	.1	*	*	.1	.1	.1	.0	.0	.0	.3	.3
	NO PCP	.1	*	.0	.1	.1	*	*	*	.0	.0	.4	.4
	TOT %	.1	.1	*	.1	.2	.1	.1	*	.0	.0	.7	.7
5<10	PCP	.1	.2	.2	.3	.7	.6	.1	.1	.0	.1	2.3	2.3
	NO PCP	3.6	4.8	1.6	2.0	3.3	4.1	.8	1.3	.0	.9	22.3	22.3
	TOT %	3.8	5.0	1.8	2.3	4.0	4.7	.9	1.4	.0	.9	24.6	24.6
10+	PCP	*	*	*	.1	.4	.3	*	*	.0	*	1.0	1.0
	NO PCP	16.7	16.1	5.6	7.1	11.1	8.0	2.5	4.1	.0	1.7	72.9	72.9
	TOT %	16.7	16.1	5.7	7.2	11.5	8.3	2.6	4.1	.0	1.7	74.0	74.0
TOT OBS													3737
TOT PCT													20.8 21.4 7.5 9.0 15.8 13.2 3.6 5.5 .0 2.6 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1
	4-10	*	.0	*	*	*	*	*	*	.0	*	.1	.1
	11-21	*	.0	*	*	*	*	.0	.0	.0	*	.1	.1
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	.3
	TOT %	.1	.0	*	*	.1	*	*	*	.0	*	.3	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	*	.0	.0	.0	*	.0	.0	.0	.2	.2
	11-21	*	*	.0	.0	.0	*	*	.0	.0	.0	.1	.1
	22+	*	*	.1	.0	*	*	.0	.0	.0	.0	.2	.2
	TOT %	.1	.1	.1	.0	*	.1	*	.0	.0	.0	.4	.4
2<5	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0
	4-10	*	.1	.0	*	.1	.1	.0	*	.0	.0	.2	.2
	11-21	*	.1	*	*	.1	*	*	*	.0	.0	.4	.4
	22+	*	*	.0	*	*	.1	*	.0	.0	.0	.2	.2
	TOT %	.1	.1	*	.1	.2	.2	.1	*	.0	.0	.9	.9
5<10	0-3	.1	.2	.2	.1	.2	.2	.1	.1	.0	.8	2.1	2.1
	4-10	1.2	2.0	.8	1.0	.7	1.4	.4	.5	.0	.7	7.9	7.9
	11-21	1.5	1.7	.5	.7	1.6	1.7	.2	.4	.0	.8	8.3	8.3
	22+	.5	.6	*	.2	1.2	1.1	.1	.1	.0	.3	3.8	3.8
	TOT %	3.3	4.4	1.5	2.0	3.7	4.4	.8	1.2	.0	.8	22.1	22.1
10+	0-3	.5	.5	.4	.3	.4	.4	.2	.3	.0	1.9	5.0	5.0
	4-10	5.6	6.9	3.7	3.9	4.2	2.8	1.6	2.4	.0	.1	31.2	31.2
	11-21	7.9	7.2	1.6	2.3	5.0	4.2	.8	1.4	.0	.0	30.5	30.5
	22+	2.9	1.9	.1	.6	2.1	1.6	.1	.3	.0	.0	9.6	9.6
	TOT %	16.9	16.5	5.9	7.1	11.8	9.1	2.7	4.4	.0	1.9	76.3	76.3
TOT OBS													4520
TOT PCT													20.6 21.2 7.5 9.2 15.8 13.8 3.6 5.6 .0 2.7 100.0

JULY

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1853-1973AREA 0022 DURBAN
28.75 33.7E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.3	.0	.6	3.9	6.9	3.9	1.7	.8	.3	.2	18.7	81.3	663
06009	.0	.1	.7	5.0	12.6	3.5	1.8	.3	.3	.6	25.0	75.0	681
12015	.0	.3	.4	3.1	8.8	4.6	1.4	.9	.1	.1	19.8	80.2	702
18021	.0	.0	.6	3.5	7.4	3.9	2.0	.3	.3	.2	18.2	81.8	660
TOT	2	3	17	105	243	108	46	15	7	7	353	2153	2706
PCT	.1	.1	.6	3.9	9.0	4.0	1.7	.6	.3	.3	20.4	79.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	.2	.3	.7	18.2	80.6	974
06009	.0	.4	.5	.8	25.0	73.2	1334
12015	.0	.4	.6	1.0	19.1	78.9	1055
18021	.0	.4	.4	.9	27.3	71.0	1300
TOT	0	16	21	41	1068	3517	4663
PCT	.0	.3	.5	.9	22.9	75.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	.3	1.1	5.2	14.3	80.5	635
06009	.0	.9	6.4	19.7	73.9	655
12015	.0	.7	4.6	16.3	79.1	681
18021	.0	.6	4.7	14.2	81.2	643
TOT	2	22	136	422	2056	2614
PCT	.1	.8	5.2	16.1	78.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
80/84	.0	.0	.0	*	*	.0	*	.0	3	.1
75/79	.0	*	*	.2	.5	.8	.3	.1	55	2.0
70/74	.0	.0	.4	2.1	7.2	12.8	10.8	.1	1020	37.0
65/69	.0	.0	.3	4.7	11.2	16.6	12.0	5.2	1376	49.9
60/64	.0	.0	.1	1.1	2.4	3.1	2.4	.9	273	9.9
55/59	.0	.0	.0	.0	.2	.2	.3	.3	28	1.0
50/54	.0	.0	.0	.0	*	.0	.0	.0	1	*
TOTAL	0	1	22	222	594	924	710	283	2756	100.0
PCT	.0	*	.8	8.1	21.6	33.5	25.8	10.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.1	*	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.5	.5	.1	.1	.4	.1	.1	.2	.0	*
70/74	11.9	8.8	2.7	2.2	3.4	3.0	1.1	2.6	.0	1.2
65/69	8.4	11.3	4.2	5.5	8.7	6.9	1.6	2.0	.0	1.3
60/64	.7	.9	.4	1.4	2.6	2.5	.5	.4	.0	.6
55/59	.1	.1	.1	.1	.1	.3	.1	.1	.0	.2
50/54	*	.0	.0	.0	.0	.0	*	*	.0	.0
TOTAL	21.6	21.6	7.4	9.3	15.2	12.7	3.4	5.3	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	78	73	72	67	62	59	54	67.1	1251
06009	81	76	75	69	62	59	55	68.3	2165
12015	82	77	75	70	64	62	57	69.7	1294
18021	77	73	72	68	63	59	55	67.7	1837
TOT	82	76	73	68	62	59	54	68.2	6547

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	6.5	18.0	33.9	27.6	14.0	7.7	688		
06009	.0	8.4	21.5	33.6	27.0	9.5	75	740		
12015	.0	13.7	25.5	33.5	21.2	6.1	73	702		
18021	.0	7.2	20.3	31.4	28.8	12.2	76	735		
TOT	0	256	411	948	751	299	75	2865		

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1855-1973

JULY

TABLE 17

AREA 0022 DURBAN
28.75 33.7E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	WD FOG
9/10	.0	.0	.0	.0	.1	.0	.0	.0	2	.0	.1
7/8	.0	.0	.0	.1	.1	.1	.0	.0	13	.0	.4
6	.0	.0	.0	.1	.1	.1	.0	.0	11	.0	.3
5	.0	.0	.1	.1	.3	.3	.1	.0	25	.0	.7
4	.0	.0	.1	.2	.6	.4	.1	.0	48	.0	1.3
3	.0	.0	.0	.2	1.3	.9	.1	.0	91	.0	2.5
2	.0	.0	.1	.5	3.2	1.1	.0	.0	176	.1	4.9
1	.0	.0	.1	1.2	5.4	1.2	.1	.0	289	.1	7.9
0	.0	.0	.1	3.6	8.5	1.0	.0	.0	471	.1	13.1
-1	.0	.0	.1	4.0	8.3	.6	.0	.0	468	.0	13.1
-2	.0	.1	.7	6.0	6.1	.4	.0	.0	474	.0	13.3
-3	.0	.0	.9	6.0	3.7	.3	.0	.0	386	.0	10.8
-4	.1	.1	1.4	6.3	2.7	.1	.0	.0	376	.0	10.5
-5	.1	.1	1.9	5.3	1.3	.1	.0	.0	309	.0	8.6
-6	.1	.1	1.4	2.5	.4	.0	.0	.0	157	.0	4.4
-7/-8	.3	2.5	1.7	.4	.0	.0	.0	.0	176	.0	4.9
-9/-10	.4	1.1	.6	.1	.0	.0	.0	.0	81	.1	2.2
-11/-13	.3	.1	.1	.0	.0	.0	.0	.0	18	.0	.5
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	5	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	5	44	1370	228	24	1	3574	11	3563		
PCT	.1	1.2	10.6	38.3	42.6	6.4	.7	100.0	.3	99.7	

PERIOD: (OVER-ALL) 1963-1973

TABLE 16

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.7	.1	.0	.0	.0	1.1	.2	.6	.0	.0	.0	.0	.8
1-2	.2	3.9	1.5	.0	.0	.0	5.5	.2	5.5	.9	.0	.0	.0	6.4
3-4	.0	2.1	3.8	.8	.0	.0	6.7	.1	2.4	4.1	.2	.0	.0	6.8
5-6	.0	.4	2.7	.6	.1	.0	3.8	.0	.2	2.6	.4	.0	.0	3.3
7	.0	.2	1.2	1.1	.0	.0	2.5	.0	.0	.9	.5	.0	.0	1.5
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	.1	.3	.1	.0	.4
10-11	.0	.0	.1	.5	.2	.0	.9	.0	.0	.1	.4	.0	.0	.5
12	.0	.0	.0	.1	.1	.0	.1	.0	.0	.2	.3	.0	.0	.5
13-16	.0	.0	.2	.1	.1	.0	.4	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.2	9.9	3.7	.5	.0	21.6	.3	8.7	9.0	2.2	.3	.0	20.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.3	.0	.0	.0	.0	.5	.2	.6	.0	.0	.0	.0	.8
1-2	.2	3.2	.4	.0	.0	.0	3.8	.2	3.3	.5	.0	.0	.0	4.0
3-4	.0	1.3	1.3	.0	.0	.0	2.6	.0	1.5	1.5	.1	.0	.0	3.0
5-6	.0	.1	.5	.1	.0	.0	.7	.0	.2	1.3	.1	.0	.0	1.6
7	.0	.1	.1	.0	.0	.0	.2	.0	.0	.3	.3	.1	.0	.7
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.1	.1	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.9	2.5	.1	.0	.0	7.9	.4	5.6	4.0	1.0	.2	.0	11.2

PERIOD: (OVER-ALL) 1963-1973

JULY

TABLE 18 (CONT)

AREA 0022 DURBAN
28.75 33.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.5	.2	.1	.0	.0	.0	.0	.3
1-2	.2	2.5	.7	.0	.0	.0	3.4	.2	1.8	.4	.0	.0	.0	2.4
3-4	.0	1.5	2.7	.4	.0	.0	4.6	.0	.9	2.3	.1	.0	.0	3.3
5-6	.0	.3	1.9	.4	.0	.0	2.6	.0	.1	1.4	.3	.1	.0	1.9
7	.0	.3	1.2	.8	.1	.0	2.4	.0	.1	.8	.3	.0	.0	1.2
8-9	.0	.0	.3	.7	.1	.0	1.1	.0	.0	.4	.4	.0	.0	.8
10-11	.0	.0	.1	.6	.2	.0	.9	.0	.0	.2	.2	.1	.0	.6
12	.0	.0	.0	.2	.1	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.0	7.1	3.4	.7	.0	16.5	.4	3.0	5.5	1.4	.7	.0	11.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.5	.1	.0	.0	.0	.7	.1	.4	.0	.0	.0	.0	.5	
1-2	.1	1.1	.2	.0	.0	.0	1.5	.2	1.7	.4	.0	.0	.0	2.3	
3-4	.0	.4	.3	.0	.0	.0	.7	.0	.5	.8	.0	.0	.0	1.4	
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.2	.7	.1	.0	.0	1.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.1	.8	.1	.0	.0	3.3	.3	2.7	2.1	.2	.0	.0	5.4	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	3.7	.2	.0	.0	.0	8.9	
1-2	1.5	22.9	4.9	.0	.0	.0	29.3	
3-4	.1	10.4	16.5	1.5	.0	.0	28.5	
5-6	.0	1.6	11.1	1.9	.1	.0	14.7	
7	.0	.6	4.5	3.1	.2	.0	8.4	
8-9	.0	.0	1.5	1.9	.2	.0	3.6	
10-11	.0	.1	.8	1.8	.6	.0	3.3	
12	.1	.0	.2	.7	.2	.0	1.1	
13-16	.0	.0	.2	.6	.0	.0	1.4	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.1	.0	.1	.0	.2	
23-25	.0	.0	.1	.1	.1	.0	.3	
26-32	.0	.0	.0	.1	.0	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	39.3	40.1	11.7	2.3	.0	100.0	1790

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	6.0	8.7	6.2	3.0	1.2	.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	568	4
6-7	.0	1.0	4.2	8.1	5.9	3.5	2.0	.7	1.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	568	6
8-9	.0	.1	1.7	2.8	5.4	3.8	2.0	.8	1.4	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	400	8
10-11	.0	.4	.7	.9	1.8	1.5	1.4	.7	.6	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	179	8
12-13	.0	.0	.8	.5	.6	.7	.5	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	80	8
>13	.0	.0	.0	.2	.5	.3	.4	.2	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	51	11
INDET	1.5	.6	1.7	2.4	2.3	1.7	1.0	.5	.7	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	270	6
TOTAL	50	173	381	449	419	270	172	78	99	19	9	8	7	2	0	0	0	0	0	2136	6
PCT	2.3	8.1	17.8	21.0	19.6	12.6	8.1	3.7	4.6	.9	.4	.4	.3	.1	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1959-1973

TABLE 1

AREA 0022 DURBAN
28.65 33.7E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.0	.9	.2	.0	.0	.0	.0	2.0	1.1	.8	.5	.0	2.6	.0	93.3
NE	.9	.7	.0	.0	.0	.0	.0	1.5	1.0	1.1	.9	.0	2.9	.2	92.6
E	.5	.9	.6	.0	.0	.0	.0	2.0	1.8	.5	.2	.0	1.3	.0	94.2
SE	3.7	2.4	1.2	.0	.0	.0	.0	6.6	2.0	2.4	.0	.0	1.7	.0	87.6
S	1.6	3.0	1.3	.0	.0	.0	.0	5.8	3.9	1.4	.5	.0	2.2	.1	86.5
SW	3.7	4.0	1.4	.0	.0	.0	.0	8.6	3.3	1.7	1.0	.0	1.8	.3	84.1
W	3.8	1.9	.7	.0	.0	.0	.0	6.4	.7	1.9	1.0	.0	4.8	.0	87.2
NW	1.9	2.7	.4	.0	.0	.0	.0	4.8	.0	3.1	.8	.0	2.5	.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	3.3	1.7	3.3	.0	5.0	.0	86.7
TOT PCT	1.7	1.7	.6	.0	.0	.0	.0	3.9	2.0	1.3	.7	.0	2.4	.1	90.1
TOT OBS:	3844														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.1	2.1	.8	.0	.0	.0	.0	4.8	2.3	2.6	.1	.0	2.0	.1	88.6
0600	1.9	1.7	.5	.0	.0	.0	.0	3.8	1.9	.7	1.6	.0	3.2	.1	89.1
1200	1.5	1.5	.5	.0	.0	.0	.0	3.5	1.5	.2	.8	.0	2.5	.2	91.4
1800	1.1	1.8	.6	.0	.0	.0	.0	3.5	1.8	1.7	.6	.0	1.8	.0	90.8
TOT PCT	1.6	1.8	.6	.0	.0	.0	.0	3.9	1.9	1.3	.8	.0	2.4	.1	90.0
TOT OBS:	3997														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	5.1	7.9	3.1	.5	.1			17.2	15.5	17.3	17.8	22.5	19.3	18.7	12.3	12.5	15.7
NE	.9	7.5	11.5	4.1	.5	.0			24.4	14.8	27.3	24.2	19.9	20.9	27.9	26.5	26.9	23.4
E	.6	6.0	4.8	.5	*	.0			11.9	10.9	12.0	9.5	9.4	11.0	11.8	12.1	15.1	12.5
SE	.6	3.9	3.5	.8	.2	.0			9.1	12.2	9.3	8.8	9.2	8.1	8.1	9.6	10.1	9.1
S	.7	4.6	6.7	3.3	.8	*			16.1	16.1	14.7	14.8	14.7	15.0	16.0	17.4	16.7	16.2
SW	.6	3.6	4.8	3.2	.7	.1			13.0	16.9	12.2	13.7	13.6	14.3	11.5	14.7	11.4	13.7
W	.4	1.7	.8	.3	*	*			3.2	10.9	2.2	4.5	4.8	4.2	1.5	3.1	1.9	4.1
NW	.2	1.6	1.2	.3	*	*			3.3	11.7	3.1	4.7	4.2	4.4	3.3	2.4	1.9	3.2
VAR	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8								1.8	.0	2.0	2.0	1.7	2.6	1.3	1.9	1.5	2.0
TOT OBS	403	2214	2672	1017	179	13	6498		14.2		711	504	1136	916	798	572	1270	591
TOT PCT	6.2	34.1	41.1	15.7	2.8	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	03	06	12
N	2.2	7.9	5.4	1.5	.2			17.2	15.5	17.5	21.1	16.0	13.5
NE	3.5	11.5	7.6	1.8	.1			24.4	14.8	26.0	20.4	27.3	23.8
E	3.0	7.0	1.8	.1	.0			11.9	10.9	11.0	10.1	12.0	14.3
SE	2.4	4.3	2.0	.4	.0			9.1	12.2	9.1	8.7	8.7	9.8
S	2.6	6.3	5.1	2.0	.1			16.1	16.1	14.7	14.9	16.6	17.9
SW	2.2	4.6	4.1	2.0	.2			13.0	16.9	12.8	13.9	12.8	12.1
W	1.2	1.3	.5	.2	*			3.2	10.9	3.1	4.5	2.2	2.6
NW	.8	1.7	.6	.1	*			3.3	11.7	3.7	4.3	2.9	2.3
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.0	2.1	1.5	1.7
TOT OBS	1276	2903	1759	523	37	6498		14.2		1215	2052	1370	1861
TOT PCT	19.6	44.7	27.1	8.0	.6		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47				
0000	2.0	3.7	34.2	41.1	16.0	2.6	.3	14.4	100.0	1215
0600	2.1	5.2	35.1	40.9	13.6	2.8	.3	13.7	100.0	2052
1200	1.5	3.7	32.6	42.8	16.6	2.8	.0	14.6	100.0	1370
1800	1.7	4.4	34.0	40.1	17.0	2.7	.2	14.4	100.0	1861
TOT	119	284	2214	2672	1017	179	13	14.2		6498
PCT	1.8	4.4	34.1	41.1	15.7	2.8	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL DBS	MEAN CLOUD COVER
N	11.2	3.2	4.2	.9		2.6
NE	16.7	4.6	4.7	1.6		2.4
E	5.9	2.5	3.1	.9		3.2
SE	2.3	1.4	2.7	1.5		4.5
S	4.5	3.6	5.4	2.9		4.5
SW	3.4	1.8	3.6	1.6		4.2
W	.8	.2	.3	.2		3.1
NW	1.4	.6	.6	.2		2.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	.3	.1		2.8
TOT DBS	1252	488	666	269	2675	3.3
TOT PCT	46.8	18.2	24.9	10.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL DBS
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	
*	.1	.1	.6	1.2	.7	.2	.1	.1	.1	16.5	
.1	*	*	.8	1.6	1.5	.4	*	*	.1	22.8	
.0	.0	.2	.7	1.3	.5	.4	*	*	.0	9.3	
.0	*	*	1.0	1.4	.9	*	.0	.1	.0	4.4	
.1	.0	.4	1.7	2.7	1.1	.3	.0	.1	.1	9.9	
.1	*	.2	1.1	2.0	.5	.3	*	.0	*	6.3	
.0	.0	*	.1	.1	.1	.0	*	*	.0	1.2	
.0	*	*	.2	.4	.1	.0	.0	.0	.0	2.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	*	.1	.0	.1	.1	.0	.0	1.0	
7	5	25	165	286	142	44	7	10	12	1972	2675
.3	.2	.9	6.2	10.7	5.3	1.6	.3	.4	.4	73.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.7	.8	.8	.8	.8	.8	.8	.8
>3000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>2500	2.5	2.6	2.7	2.7	2.7	2.7	2.7	2.7
>2000	6.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
>1500	15.4	18.4	18.7	18.7	18.7	18.7	18.7	18.7
>1000	20.1	24.3	24.7	24.7	24.7	24.7	24.8	24.8
>500	20.4	25.2	25.6	25.6	25.6	25.6	25.7	25.7
>150	20.4	25.3	25.8	25.8	25.8	25.8	25.9	25.9
>0	20.5	25.5	26.0	26.1	26.1	26.1	26.1	26.1
TOTAL	557	694	708	709	709	709	710	710

TOTAL NUMBER OF DBS: 2718

PCT FREQ NH <5/8: 73.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 DBSCD	TOTAL DBS
24.6	15.6	13.5	10.9	8.3	6.4	6.0	6.4	8.2	2854

PERIOD: (PRIMARY) 1915-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	*	*		
	TOT %	*	.0	.0	.0	.0	.0	.0	*	.0	*	*		
1/2<1	PCP	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.4	
	NO PCP	*	.2	*	.0	.0	.1	*	.0	.0	*	*		
	TOT %	*	.2	*	.0	.0	.1	*	.0	.0	*	*		
1<2	PCP	*	*	.0	.0	*	.1	.0	.0	.0	.0	.1	1.0	
	NO PCP	.2	.3	.1	.1	.2	.1	.1	*	.0	.0	1.0		
	TOT %	.2	.3	.1	.1	.2	.1	.1	*	.0	.0	1.1		
2<5	PCP	*	.0	*	.1	.1	.1	*	*	.0	.0	.4	.4	
	NO PCP	.1	.1	*	*	.1	.1	*	.0	.0	.0	.4		
	TOT %	.1	.1	*	.1	.2	.2	*	*	.0	.0	.8		
5<10	PCP	.2	.3	*	.3	.6	.7	.1	.1	.0	.0	2.4	22.6	
	NO PCP	3.3	5.1	1.4	1.9	4.0	4.3	1.2	.8	.0	.5	22.6		
	TOT %	3.6	5.5	1.4	2.2	4.6	5.0	1.3	.9	.0	.5	25.0		
10+	PCP	.1	.1	.1	.2	.2	.2	*	*	.0	.0	.8	71.8	
	NO PCP	14.1	20.2	9.4	5.7	10.8	7.1	1.3	2.2	.0	1.0	71.8		
	TOT %	14.2	20.3	9.6	5.8	11.0	7.3	1.3	2.2	.0	1.0	72.6		
TOT OBS														3841
TOT PCT														18.1 26.3 11.2 8.2 16.0 12.8 2.7 3.1 .0 1.6 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	*	*	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*		
	22+	.0	*	*	.0	.0	.0	.0	.0	.0	.0	*		
	TOT %	*	*	*	*	.0	.0	.0	*	.0	*	*		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.1	
	4-10	.0	.1	*	.0	.0	*	*	.0	.0	.0	.1		
	11-21	.0	*	.0	.0	.0	.1	*	.0	.0	.0	*		
	22+	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*		
	TOT %	*	.1	*	.0	.0	.1	*	.0	.0	*	.3		
1<2	0-3	*	*	.0	.0	.0	.0	*	*	.0	.0	.1	.9	
	4-10	.1	.1	*	*	.1	*	.1	.0	.0	.0	.4		
	11-21	*	.1	.0	*	.1	.1	.0	*	.0	.0	.3		
	22+	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.2		
	TOT %	.2	.3	*	.1	.2	.1	.1	*	.0	.0	.9		
2<5	0-3	.0	*	*	*	*	*	*	.0	.0	.0	.1	.4	
	4-10	*	.0	*	*	.1	.0	.0	.0	.0	.0	.2		
	11-21	.1	*	*	*	.1	.1	*	*	.0	.0	.4		
	22+	*	*	*	*	.2	.1	.0	.0	.0	.0	.4		
	TOT %	.1	.1	.1	.1	.3	.3	*	*	.0	.0	1.1		
5<10	0-3	.1	.3	.1	.1	.2	.3	.2	.1	.0	.5	1.8	23.1	
	4-10	1.1	1.4	.6	.7	.8	1.3	.6	.4	.0	.0	6.9		
	11-21	1.4	2.4	.7	.7	1.5	1.6	.2	.3	.0	.0	8.9		
	22+	.7	.9	.1	.5	1.7	1.5	.2	.1	.0	.0	5.5		
	TOT %	3.3	5.0	1.5	2.0	4.2	4.6	1.2	.8	.0	.5	23.1		
10+	0-3	.3	.6	.4	.4	.4	.3	.2	.1	.0	1.2	3.9	74.5	
	4-10	3.9	6.1	5.0	3.1	3.7	2.3	.9	1.2	.0	.0	26.2		
	11-21	6.8	9.7	4.3	2.8	4.8	2.8	.3	.8	.0	.0	32.4		
	22+	2.8	3.7	.3	.4	2.4	2.2	.1	.1	.0	.0	12.0		
	TOT %	13.9	20.0	10.0	6.7	11.2	7.5	1.5	2.3	.0	1.2	74.5		
TOT OBS														4735
TOT PCT														17.5 25.5 11.7 8.9 16.0 12.6 2.8 3.2 .0 1.8 100.0

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PERIOD: (PRIMARY) 1915-1973
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	100	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.6	.0	1.1	7.1	10.5	4.9	1.4	.2	.8	1.2	27.7	72.3	649
06009	.1	.3	1.0	5.5	13.6	5.9	1.8	.1	.0	.3	28.8	71.2	674
12015	.0	.3	1.0	6.0	8.0	5.4	1.5	.3	.3	.1	22.9	77.1	777
18021	.3	.1	.6	5.2	10.0	4.3	1.6	.4	.4	.1	23.1	76.9	692
TOT	7	5	26	166	291	144	44	7	10	12	712	2080	2792
PCT	.3	.2	.9	5.9	10.4	5.2	1.6	.3	.4	.4	25.5	74.5	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.1	.9	1.1	22.3	75.6	1006
06009	.0	1.0	1.4	.9	25.9	70.8	1355
12015	.2	.4	.7	1.1	19.3	78.3	1135
18021	.1	.2	.9	1.3	27.1	70.5	1393
TOT	4	22	47	54	1171	3591	4889
PCT	.1	.4	1.0	1.1	24.0	73.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.6	1.8	9.7	19.1	71.1	627
06009	.2	1.5	7.7	22.3	70.0	659
12015	.0	1.3	7.6	15.8	76.6	760
18021	.3	1.0	7.1	17.0	75.9	672
TOT	7	38	218	501	1999	2718
PCT	.3	1.4	8.0	18.4	73.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	.1	.1	.4	.0	9	.3
75/79	.0	.1	.1	.4	.7	.9	.5	.1	79	2.6
70/74	.0	.1	.5	1.0	6.1	14.3	14.6	5.2	1242	41.3
65/69	.0	.0	.5	2.6	8.0	14.1	13.4	5.5	1330	44.2
60/64	.0	.0	.9	.9	2.1	3.0	2.3	1.7	303	10.1
55/59	.0	.0	.0	.5	.1	.3	.5	.3	37	1.2
50/54	.0	.0	.0	.0	.0	.1	.1	.1	6	.2
TOTAL	0	4	27	148	514	983	947	385	3008	100.0
PCT	.0	.1	.9	4.9	17.1	32.7	31.5	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.1	.1	.1	.0	.0	.4	.0	.0	.0	.0
75/79	.7	.6	.4	.1	.2	.3	.4	.4	.0	.1
70/74	10.5	14.9	5.3	2.2	3.5	2.6	.7	1.3	.0	.4
65/69	6.4	10.1	5.2	4.4	9.4	5.7	.9	1.1	.0	.9
60/64	.5	1.3	.7	1.1	2.5	3.1	.4	.3	.0	.3
55/59	.0	.0	.0	.0	.2	.6	.3	.0	.0	.1
50/54	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
TOTAL	18.1	27.0	11.6	7.9	15.8	12.5	2.4	2.8	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	74	72	68	62	58	55	67.4	1249
06009	82	77	74	69	63	59	54	68.7	2063
12015	82	78	76	70	64	60	53	70.0	1379
18021	78	74	72	68	62	57	53	67.9	1887
TOT	82	77	74	69	62	59	53	68.5	6578

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.7	14.2	29.0	34.8	17.4	79	725
06009	.0	7.2	16.5	33.2	30.1	13.0	77	775
12015	.0	8.7	21.0	35.5	27.6	7.2	75	782
18021	.0	2.9	15.5	32.0	33.8	15.8	79	825
TOT	0	182	523	1009	980	413	77	3107

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FUG	WD FOG
11/13	.0	.0	.0	.0	*	*	.1	.1	7	*	.2
9/10	.0	.0	.0	.1	*	.1	.2	*	12	.0	.3
7/8	.0	.0	.0	.1	.1	.1	.1	*	16	.0	.4
6	.0	.0	.0	.0	.1	.1	.1	.0	12	.0	.3
5	.0	.0	.0	.1	.3	.4	.2	*	39	.0	1.1
4	.0	.0	.1	.1	.9	.8	.1	.0	71	*	2.0
3	.0	.0	.0	.2	1.5	1.4	.2	.0	117	.0	3.3
2	.0	.0	*	.6	3.5	2.0	.2	.0	226	.1	6.3
1	.0	.0	.1	1.5	6.5	1.8	.1	.0	354	.2	9.7
0	.0	*	.2	3.4	10.5	1.4	.1	.0	561	.3	15.4
-1	.0	.0	.3	4.8	8.8	.7	.0	.0	524	.1	14.6
-2	.0	*	.4	5.8	5.6	.1	.0	.0	432	.1	12.0
-3	.0	*	.8	5.0	3.2	.2	*	.0	330	.1	9.1
-4	.0	.1	1.7	4.8	2.3	.1	.0	.0	322	.1	8.9
-5	.0	.1	1.6	2.7	1.1	*	.0	.0	196	.0	5.5
-6	.0	.2	1.5	1.7	.4	*	.0	.0	135	*	3.7
-7/-8	.0	.4	1.8	1.6	.2	.0	.0	.0	143	*	4.0
-9/-10	*	.4	.5	.3	.1	.0	.0	.0	46	.0	1.3
-11/-13	.1	.3	.3	.1	.0	.0	.0	.0	28	.0	.8
-14/-16	.1	*	*	*	.0	.0	.0	.0	7	.0	.2
TOTAL	9	58	327	1183	1620	330	45	6	3578	32	3546
PCT	.3	1.6	9.1	33.1	43.3	9.2	1.3	.2	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8	.3	.7	.1	.0	.0	.0	1.0
1-2	.1	2.4	1.2	.0	.0	.0	3.7	.1	3.4	2.2	.0	.0	.0	5.7
3-4	.0	1.5	3.7	.7	.0	.0	5.8	.1	1.9	5.5	.4	.0	.0	7.8
5-6	.0	.4	3.4	.6	.1	.0	4.5	*	.4	3.9	1.2	.1	.0	5.6
7	.0	.2	1.4	.9	*	.0	2.5	.0	.0	1.5	1.3	.1	.0	2.8
8-9	.0	.0	.3	.6	*	.0	1.0	.1	.1	.5	1.0	.1	.0	1.8
10-11	.0	.0	*	.4	.1	.1	.6	.0	.0	.2	.7	.1	.0	1.0
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.2	.1	.0	.4
13-16	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.2	.1	.0	.2
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.0	10.1	3.6	.6	.1	19.7	.5	6.5	13.8	5.0	.5	.0	26.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.1	.2	.0	.0	.0	.0	.2
1-2	.1	3.3	1.0	.0	.0	.0	4.4	.1	1.7	.5	.0	.0	.0	2.3
3-4	.0	1.8	2.2	.1	.0	.0	4.1	.0	.8	1.4	.2	.0	.0	2.4
5-6	*	.3	1.4	.2	.0	.0	2.0	.0	.2	.7	.2	.1	.0	1.0
7	.0	.1	.9	.1	.0	.0	1.0	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.1	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.7	5.8	.5	.0	.0	12.3	.2	2.9	3.1	.9	.1	.0	7.2

PERIOD: (OVER-ALL) 1963-1973

AUGUST

TABLE 18 (CONT)

AREA 0022 DURBAN
28.65 33.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.4	.0	.0	.0	.0		.7	.1	.2	.1	.0	.0	.0		.4
1-2	.1	1.8	1.0	.0	.0	.0		2.8	.0	1.2	.5	.0	.0	.0		1.8
3-4	.0	1.2	2.5	.0	.0	.0		4.2	.0	.9	1.2	.3	.0	.0		2.5
5-6	.0	.3	2.2	.7	.2	.0		3.3	.0	.3	1.5	.4	.0	.0		2.1
7	.0	.1	1.2	.9	.2	.0		2.3	.0	.1	.8	.0	.3	.0		1.7
8-9	.0	.0	.4	.8	.1	.0		1.2	.0	.0	.1	.6	.2	.0		.9
10-11	.0	.0	.2	.3	.1	.0		.6	.0	.0	.1	.4	.2	.0		.7
12	.0	.0	.*	.3	.1	.0		.5	.0	.0	.0	.1	.1	.0		.2
13-16	.0	.0	.0	.6	.3	.0		.9	.0	.0	.0	.2	.4	.0		.6
17-19	.0	.0	.0	.2	.1	.0		.3	.0	.0	.0	.1	.2	.0		.3
20-22	.0	.0	.0	.*	.1	.0		.1	.0	.0	.0	.0	.1	.0		.1
23-25	.0	.0	.0	.3	.1	.0		.4	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.1	.0	.0		.1
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	3.7	7.5	4.6	1.3	.0		17.4	.1	2.7	4.3	2.8	1.3	.0		11.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.2	.0	.0	.0	.0		.4	.1	.1	.1	.0	.0	.0		.3	
1-2	.0	.5	.1	.0	.0	.0		.6	.0	.7	.2	.0	.0	.0		.9	
3-4	.0	.2	.1	.0	.0	.0		.3	.0	.3	.4	.*	.0	.0		.7	
5-6	.0	.1	.*	.0	.0	.0		.1	.0	.1	.4	.*	.0	.0		.5	
7	.0	.0	.0	.1	.0	.0		.1	.0	.0	.1	.*	.1	.0		.2	
8-9	.0	.0	.0	.*	.0	.0		.*	.0	.0	.1	.*	.0	.0		.1	
10-11	.0	.0	.1	.1	.0	.0		.2	.0	.0	.*	.0	.0	.0		.*	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.*	.0	.0		.*	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	1.0	.3	.3	.0	.0		1.7	.1	1.2	1.3	.1	.1	.0		2.8	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.0	2.8	.3	.0	.0	.0	6.0	
1-2	.6	15.0	6.6	.0	.0	.0	22.2	
3-4	.1	8.5	16.9	2.2	.0	.0	27.7	
5-6	.2	2.0	13.4	3.2	.5	.0	19.2	
7	.0	.4	6.1	4.1	.6	.0	11.2	
8-9	.1	.1	1.8	3.3	.4	.0	5.6	
10-11	.0	.1	.6	2.1	.5	.1	3.2	
12	.0	.0	.2	.8	.3	.0	1.3	
13-16	.0	.0	.0	1.3	1.0	.0	2.3	
17-19	.0	.0	.0	.3	.3	.0	.6	
20-22	.0	.0	.0	.1	.2	.0	.2	
23-25	.0	.0	.0	.3	.1	.0	.4	
26-32	.0	.0	.0	.1	.0	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	28.7	45.9	17.8	3.8	.1	100.0	1931

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	3.9	7.4	5.3	3.5	1.3	.7	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	567
6-7	.0	.4	4.6	6.8	6.0	4.3	2.7	1.3	1.4	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	656
7-8	.0	.1	1.4	4.0	4.9	3.8	2.9	1.3	1.9	.9	.3	.*	.1	.0	.0	.0	.0	.0	.0	.0	901
10-11	.0	.2	.3	1.0	1.9	1.3	1.6	.7	1.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	214
12-13	.0	.0	.6	.3	.6	.4	.8	.7	1.2	.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	123
13	.0	.0	.0	.3	.4	.3	.2	.1	.3	.0	.*	.1	.1	.0	.0	.0	.0	.0	.0	.0	42
INDET	.8	.7	1.3	1.5	1.6	1.5	.7	.6	.4	.2	.1	.0	.*	.0	.0	.0	.0	.0	.0	.0	219
TOTAL	53	125	361	448	441	299	222	117	155	52	25	14	10	0	0	0	0	0	0	0	2322
PCT	2.3	5.4	15.5	19.3	19.0	12.9	9.6	5.0	6.7	2.2	1.1	.6	.4	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1855-1973AREA 0022 DURBAN
28.65 32.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DR7L	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	1.4	.9	.4	.0	.0	.0	.2	2.6	.5	2.3	.9	.0	2.3	.1	91.5	
NE	1.2	1.1	.7	.0	.0	.0	.1	3.1	.6	1.4	1.0	.0	1.9	*	92.5	
E	.8	2.3	1.8	.0	.0	.0	.0	4.9	2.0	.5	.4	.0	.8	.0	91.4	
SE	2.5	2.7	.7	.0	.0	.0	.0	5.9	3.3	2.0	.1	.0	1.1	.0	88.2	
S	2.6	2.4	.5	.0	.0	.0	.0	5.5	5.2	1.2	.6	.0	1.9	.3	85.9	
SW	5.9	3.4	2.1	.0	.0	.0	.0	11.3	3.6	2.5	.5	.0	2.1	*	80.5	
W	1.7	2.8	1.7	.0	.0	.0	.0	6.1	7.5	5.0	.8	.0	1.1	.0	79.5	
NW	1.0	1.5	.0	.0	.0	.0	.0	2.5	1.3	2.3	1.3	.0	3.0	.0	89.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	2.7	1.4	.0	.0	.0	.0	5.4	.0	2.7	5.4	.0	2.7	.0	83.8	
TOT PCT	2.3	2.0	.9	.0	.0	.0	.1	5.2	2.5	1.8	.8	.0	1.8	.1	88.2	
TOT OBS:	3498															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST RLWG SNOW	NO SIG WEA
0000	3.0	2.6	1.7	.0	.0	.0	.0	7.1	2.6	2.7	.8	.0	.8	.1	86.7
0600	2.2	1.5	1.4	.0	.0	.0	.0	5.1	3.2	.4	1.4	.0	2.5	.0	87.6
1200	1.4	2.1	.9	.0	.0	.0	.1	4.5	1.9	.2	.8	.0	3.0	.0	89.7
1800	2.6	2.2	.1	.0	.0	.0	.1	5.1	2.2	3.7	.2	.0	1.0	.2	88.2
TOT PCT	2.3	2.1	1.0	.0	.0	.0	.1	5.4	2.5	1.7	.8	.0	1.8	.1	88.1
TOT OBS:	3591														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.4	4.3	6.5	3.3	.5	.1		15.0	16.1	15.8	15.8	19.9	14.4	14.5	12.4	10.8	16.4
NE	.8	7.9	10.7	4.0	.6	*		24.1	14.6	22.2	22.1	19.3	23.5	23.5	29.6	28.6	25.1
E	.4	5.5	3.5	.6	*	.0		10.1	11.2	11.5	7.7	7.8	9.4	12.0	11.5	12.0	8.6
SE	.4	4.5	3.9	1.2	.1	.0		10.1	12.3	10.0	9.3	9.6	10.4	9.8	10.9	11.1	9.3
S	.4	5.3	7.5	4.1	1.2	*		18.5	16.9	18.8	14.8	17.7	16.9	20.6	18.6	21.4	16.5
SW	.8	3.9	5.3	3.1	1.1	.1		14.3	17.0	13.2	14.9	15.5	18.0	13.8	13.8	11.5	14.1
W	.2	1.4	.9	.2	.1	*		2.9	11.6	3.2	5.1	4.5	3.0	1.8	1.3	1.8	2.9
NW	.1	1.5	1.0	.4	*	.0		2.9	12.0	3.5	4.6	3.8	3.3	3.0	1.7	1.0	3.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	1.9	5.6	1.8	1.2	1.1	.2	1.9	3.6
TOT OBS	317	1937	2202	948	195	15	5614		14.6	625	444	1029	779	665	507	1058	507
TOT PCT	5.6	34.5	39.2	16.9	3.5	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	2.0	6.1	5.1	1.7	.1		15.0	16.1	15.8	17.5	13.6	12.6	
NE	4.1	10.7	7.5	1.7	.1		24.1	14.6	22.2	21.1	26.1	27.5	
E	2.3	6.0	1.6	.2	.0		10.1	11.2	9.9	8.5	11.8	10.9	
SE	2.3	5.4	2.1	.3	*		10.1	12.3	9.7	10.0	10.3	10.5	
S	2.0	8.2	5.6	2.3	.4		18.5	16.9	17.2	17.4	19.7	19.8	
SW	2.1	5.6	4.3	1.7	.6		14.3	17.0	13.9	16.6	13.8	12.3	
W	.9	1.4	.5	.1	*		2.9	11.6	4.0	3.9	1.6	2.1	
NW	.9	1.2	.7	.1	.0		2.9	12.0	4.0	3.6	2.4	1.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.0						2.0	.0	3.5	1.5	.7	2.4	
TOT OBS	1044	2499	1539	463	69	5614		14.6	1069	1808	1172	1565	
TOT PCT	18.6	44.5	27.4	8.2	1.2		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.5	4.1	37.2	37.3	14.9	2.9	.1	13.7	100.0	1069
0609	1.5	4.8	35.0	39.0	16.4	3.0	.3	14.3	100.0	1808
12015	.7	2.2	30.7	42.3	19.5	4.2	.3	15.7	100.0	1172
18021	2.4	3.2	35.0	38.5	16.8	3.8	.3	14.6	100.0	1565
TOT	111	206	1937	2202	948	195	15	14.6		5614
PCT	2.0	3.7	34.5	39.2	16.9	3.5	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	7.2	2.8	3.4	1.9		3.3
NE	11.5	4.3	4.4	2.6		3.0
E	4.8	2.1	2.8	1.6		3.6
SE	3.3	2.4	2.7	2.5		4.4
S	4.3	4.2	6.8	4.9		5.0
SW	2.5	1.8	4.0	4.3		5.3
W	.8	.5	.8	.6		4.4
NW	1.6	.3	.5	.5		3.1
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.2	.2		3.0
TOT OBS	896	454	627	465	2442	4.0
TOT PCT	36.7	18.6	25.7	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	*	*	.2	.7	1.9	.8	.7	*	*	.1	11.4	
NE	*	*	.2	.9	2.5	1.0	.4	.1	.1	.2	17.5	
E	.0	.0	.2	.7	1.7	.7	.7	.1	.0	.1	7.6	
SE	.0	*	.2	.7	2.2	.7	.3	.1	*	.0	6.6	
S	*	.1	.3	2.3	4.1	1.8	.3	.3	.1	.1	10.6	
SW	.1	*	.3	1.7	3.4	1.0	.3	.1	.2	.2	5.3	
W	.0	.0	.1	.1	.5	.1	.2	.1	.0	.1	1.5	
NW	.0	.0	*	.3	.3	.1	.1	.0	.0	.0	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.2	*	*	.1	.0	.0	.0	*	.9	
TOT OBS	7	6	37	184	402	156	53	18	9	21	1549	2442
TOT PCT	.3	.2	1.5	7.5	16.5	6.4	2.2	.7	.4	.9	63.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50 YD	>0
>6500	1.0	1.2	1.3	1.3	1.3	1.3	1.3	1.3
>5000	1.5	1.9	2.0	2.0	2.0	2.0	2.0	2.0
>3500	3.3	4.0	4.1	4.1	4.1	4.1	4.1	4.1
>2000	8.6	10.4	10.5	10.5	10.5	10.5	10.5	10.5
>1000	21.0	26.0	26.6	26.8	26.8	26.9	26.9	26.9
>600	25.6	33.2	34.1	34.3	34.3	34.4	34.4	34.4
>300	26.5	34.5	35.5	35.8	35.8	35.8	35.8	35.8
>150	26.5	34.6	35.7	36.0	36.0	36.0	36.0	36.0
>0	26.6	34.8	36.0	36.3	36.3	36.3	36.3	36.3
TOTAL	659	862	892	900	900	901	901	901

TOTAL NUMBER OF OBS: 2480

PCT FREQ NH <5/8: 63.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	18.9	12.1	12.2	10.8	8.9	6.5	7.8	7.1	15.4	.2	2503

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PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1855-1973AREA 0022 DURBAN
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.0	.0	*	.1	*	*	.0	.0	.0	.0	.1	.1
	NO PCP	*	.2	*	*	*	.0	.0	.0	.0	.1	.4	.4
	TOT %	*	.2	*	.1	.1	.1	.0	.0	.0	.1	.5	.5
1<2	PCP	.0	*	*	*	.1	.1	.0	.0	.0	.0	.2	.2
	NO PCP	.2	.2	.1	.1	*	.2	.0	.0	.0	.0	.8	.8
	TOT %	.2	.2	.1	.1	.1	.3	.0	.0	.0	.0	1.0	1.0
2<5	PCP	.1	.1	*	*	.2	.3	*	.0	.0	.0	.7	.7
	NO PCP	.2	.3	.1	.1	.3	.2	.0	*	.0	.0	1.1	1.1
	TOT %	.2	.4	.1	.1	.4	.4	*	*	.0	.0	1.8	1.8
5<10	PCP	.3	.5	.2	.3	.6	1.0	.1	*	.0	.1	3.1	3.1
	NO PCP	3.4	5.5	1.4	1.8	4.3	5.3	.7	.7	.0	1.1	24.1	24.1
	TOT %	3.6	6.0	1.7	2.1	4.9	6.3	.8	.7	.0	1.2	27.3	27.3
10+	PCP	.1	.2	.2	.2	.2	.2	.0	.1	.0	.0	1.1	1.1
	NO PCP	10.9	16.9	8.3	7.3	13.2	7.1	1.7	2.1	.0	.8	66.2	66.2
	TOT %	11.0	17.0	8.5	7.5	13.5	7.3	1.7	2.1	.0	.8	69.4	69.4
TOT OBS													
TOT PCT													
		15.1	23.8	10.4	9.9	18.9	14.4	2.6	2.8	.0	2.1	100.0	3492

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	*
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	*	*	*	*	*	*	.0	.0	.0	.0	.2	.2
	11-21	*	*	*	*	.0	*	.0	.0	.0	.0	.1	.1
	22+	.0	.1	.0	.0	.0	*	.0	.0	.0	.0	.1	.1
	TOT %	*	.1	*	.1	*	.1	.0	.0	.0	.1	.5	.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	*	.1	*	*	*	.0	.0	.0	.0	.2	.2
	11-21	.1	.1	*	*	.1	.1	.0	.0	.0	.0	.4	.4
	22+	*	*	.0	*	*	.1	.0	.0	.0	.0	.3	.3
	TOT %	.2	.2	.1	.1	.1	.3	.0	.0	.0	.0	.9	.9
2<5	0-3	.0	.0	.0	.0	*	.0	*	*	.0	.0	*	*
	4-10	.1	.2	*	*	.1	.2	.0	.0	.0	.0	.6	.6
	11-21	.1	.1	*	*	.2	.1	*	.0	.0	.0	.7	.7
	22+	.1	.2	*	.1	.4	.3	*	*	.0	.0	1.1	1.1
	TOT %	.3	.4	.1	.2	.6	.6	.1	.1	.0	.0	2.4	2.4
5<10	0-3	.1	.3	.1	.1	*	.7	.1	.1	.0	1.1	2.7	2.7
	4-10	1.0	1.9	.7	.7	1.2	1.5	.4	.2	.0	.0	7.5	7.5
	11-21	1.3	2.3	.6	.7	1.6	2.0	.3	.2	.0	.0	9.0	9.0
	22+	.9	.9	.2	.5	1.7	1.5	.1	.1	.0	.0	6.0	6.0
	TOT %	3.4	5.4	1.6	1.9	4.5	5.7	.9	.6	.0	1.1	25.1	25.1
10+	0-3	.2	.4	.3	.2	.4	.2	.1	*	.0	.9	2.7	2.7
	4-10	3.3	6.0	4.8	3.5	4.3	2.3	1.0	1.4	.0	.0	26.5	26.5
	11-21	5.2	8.1	3.0	3.2	5.9	3.5	.7	1.7	.0	.0	30.1	30.1
	22+	2.5	3.2	.3	.6	3.0	2.0	.1	.1	.0	.0	11.7	11.7
	TOT %	11.3	17.6	8.3	7.5	13.5	7.8	1.9	2.2	.0	.9	71.1	71.1
TOT OBS													
TOT PCT													
		15.1	23.8	10.1	9.7	18.8	14.6	2.8	2.8	.0	2.1	100.0	4304

SEPTEMBER

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.3	.2	.7	7.2	18.4	6.3	2.5	.7	.3	1.3	37.9	62.1	599
06009	.2	.2	2.3	8.5	16.2	7.9	2.5	.9	.9	.6	40.1	59.9	648
12015	.1	.3	1.8	7.6	15.4	5.3	1.8	.9	.0	.1	33.2	66.8	684
18021	.5	.3	1.1	5.9	14.4	5.7	1.6	.3	.3	1.3	31.7	68.3	609
TOT	7	6	38	186	408	160	93	18	10	21	907	1633	2540
PCT	.3	.2	1.5	7.3	16.1	6.3	2.1	.7	.4	.8	35.7	64.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.6	.7	1.8	21.7	75.3	903
06009	.1	.6	1.0	2.6	29.1	66.7	1272
12015	.0	.7	1.1	2.2	22.8	73.2	1011
18021	.1	.2	.8	2.8	26.6	69.5	1212
TOT	2	22	40	105	1119	3110	4398
PCT	.5	.5	.9	2.4	25.4	70.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	1.2	9.7	29.1	61.2	588
06009	.2	2.5	13.2	28.1	58.7	629
12015	.1	2.1	11.2	23.4	65.4	668
18021	.5	2.2	8.7	23.7	67.6	595
TOT	7	50	267	645	1568	2480
PCT	.3	2.0	10.8	26.0	63.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.*	.*	.*	5	.2
75/79	.0	.0	.*	.3	.8	2.0	.9	.3	118	4.2
70/74	.0	.0	.1	.9	4.9	12.9	16.5	7.0	1177	42.2
65/69	.0	.0	.2	2.1	9.0	12.9	13.2	6.4	1220	43.8
60/64	.0	.0	.0	.*	2.2	2.2	2.2	1.7	250	9.0
55/59	.0	.0	.0	.*	.1	.3	.1	.1	18	.6
TOTAL	0	0	8	115	476	842	917	430	2788	100.0
PCT	.0	.0	.3	4.1	17.1	30.2	32.9	15.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.*	.1	.*	.3	.0	.0	.0	.0	.0	.0
1.0	1.2	.4	.3	.4	.5	.1	.1	.0	.1	.1
8.8	12.3	4.9	3.4	5.9	4.0	.9	1.4	.0	.8	.8
4.7	8.6	4.5	5.2	9.9	7.3	1.2	1.0	.0	1.3	1.3
.3	.8	.6	1.0	3.0	2.4	.3	.1	.0	.4	.4
.0	.0	.0	.1	.2	.4	.*	.0	.0	.0	.0
14.8	23.0	10.4	10.1	19.3	14.6	2.6	2.6	.0	2.6	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	74	72	68	62	60	55	67.8	1080
06009	82	78	74	69	63	59	56	69.1	1797
12015	81	79	76	70	64	60	56	70.2	1168
18021	79	75	73	69	63	59	56	68.3	1563
TOT	82	77	74	69	63	59	55	68.9	5608

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.3	14.5	25.7	36.6	19.9	80	669
06009	.0	4.5	16.2	30.7	31.8	16.8	78	733
12015	.0	7.3	21.9	33.8	29.3	7.7	75	713
18021	.0	2.9	15.5	29.6	34.3	17.7	79	734
TOT	0	128	486	855	939	441	78	2849

SEPTEMBER

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1854-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53	57	61	65	69	73	77	81	TOT	W FOG	WD FOG
56	60	64	68	72	76	80	84				
11/13	.0	.0	.0	.0	.0	.1	.0	.1	4	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.1	.0	7	*	.2
7/8	.0	.0	.0	.1	.1	.1	.2	*	15	*	.4
6	.0	.0	*	.1	.1	.2	.1	*	20	.0	.6
5	.0	.0	.0	.0	.1	.5	.3	.0	28	.0	.8
4	.0	.0	.1	.1	.5	1.2	.3	.1	78	.0	2.3
3	.0	.0	.0	.2	1.0	1.3	*	.0	84	*	2.5
2	.0	.0	*	.4	3.3	1.8	.2	.0	189	.1	5.6
1	.0	.0	.1	1.2	6.2	1.7	.1	.0	311	.1	9.2
0	.0	*	.1	3.0	11.1	1.9	.0	.0	540	.1	16.0
-1	.0	.0	.2	4.3	9.3	.9	.0	.0	490	.0	14.7
-2	.0	*	.6	5.8	7.1	.4	.1	.0	466	.1	13.9
-3	.0	.0	.7	4.6	4.3	.2	.0	.0	324	.1	9.6
-4	.0	.0	1.2	4.6	1.7	.3	.0	.0	260	.1	7.7
-5	.0	.1	1.6	3.5	1.0	.0	.0	.0	202	*	6.0
-6	.0	*	1.3	1.6	.2	*	.0	.0	105	.1	3.1
-7/-8	.0	.2	1.8	1.8	.1	.0	.0	.0	134	.1	4.0
-9/-10	.0	.3	.7	.5	.0	.0	.0	.0	51	.0	1.5
-11/-13	.1	.2	.3	*	*	.0	.0	.0	21	.0	.6
-14/-16	.0	.1	.1	.0	.0	.0	.0	.0	7	.0	.2
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2		301		1535		49		3337	25	3312
PCT	.1	1.0	9.0	31.7	46.0	10.6	1.5	.2	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8	.1	.6	.0	.0	.0	.0	.7
1-2	.0	2.1	.9	.0	.0	.0	2.9	.5	3.8	1.3	.0	.0	.0	5.6
3-4	.0	1.1	2.4	.2	.0	.0	3.8	*	2.0	3.0	.5	.0	.0	5.5
5-6	.0	.1	2.5	.6	.1	.0	3.3	.0	.7	2.9	.9	.0	.0	4.4
7	.0	.1	1.2	1.1	.1	.0	2.4	.0	.2	1.6	1.0	.2	.0	3.0
8-9	.0	*	.1	.5	.0	.0	.7	.0	.2	.5	.4	.1	.0	1.2
10-11	.0	.2	.2	.5	.1	.0	1.0	.0	*	.1	.3	.4	.0	.9
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.1	.0	.2
13-16	.0	.0	.1	.4	.1	.0	.6	.0	.0	.0	.2	.1	.0	.3
17-19	.0	.1	.0	.0	.1	.1	.2	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.3	7.4	3.4	.6	.1	15.9	.6	7.5	9.5	3.5	.7	.0	21.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.1	.0	.0	.0	.9	.1	.4	.0	.0	.0	.0	.5
1-2	.2	3.2	.8	.0	.0	.0	4.2	.2	2.4	.4	.0	.0	.0	3.1
3-4	*	1.5	1.9	.0	.0	.0	3.4	.0	1.5	2.1	*	.0	.0	3.7
5-6	.0	.5	1.4	.1	.0	.0	2.0	.0	*	1.3	.3	.0	.0	1.7
7	.0	.0	.8	.1	.0	.0	.9	.0	.0	.6	.5	.0	.0	1.1
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.3	*	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	*	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.8	5.1	.5	.0	.0	11.8	.4	4.3	4.8	1.1	*	.0	10.7

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0022 DURBAN
28.05 33.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.9	.2	.4	.1	.0	.0	.0	.6
1-2	.2	3.5	.6	.0	.0	.0	4.3	.1	1.5	.5	.0	.0	.0	2.1
3-4	.0	1.5	3.4	.4	.0	.0	5.3	.0	1.0	1.8	.5	.0	.0	3.2
5-6	.0	.3	2.3	.9	.0	.0	3.5	.0	.3	2.0	.9	.0	.0	3.1
7	.0	.1	1.4	1.0	.1	.0	2.6	.0	.1	.6	.6	.1	.0	1.4
8-9	.0	.0	.7	.7	.3	.0	1.7	.0	.1	.2	.5	.1	.0	.8
10-11	.0	.0	.2	.5	.0	.0	.8	.0	.0	.1	.6	.1	.0	.7
12	.0	.0	.0	.3	.2	.0	.4	.0	.1	.0	.2	.0	.0	.3
13-16	.0	.0	.0	.5	.4	.0	1.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2
20-22	.0	.0	.1	.0	.2	.0	.3	.0	.0	.0	.0	.1	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
26-32	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.0	8.8	4.3	1.3	.0	21.0	.3	3.4	5.2	3.3	.7	.1	13.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.4	
1-2	.1	.6	.2	.0	.0	.0	.8	.0	.6	.0	.0	.0	.0	.6	
3-4	.1	.2	.5	.0	.0	.0	.8	.0	.2	.5	.0	.0	.0	.7	
5-6	.0	.1	.3	.0	.0	.0	.4	.0	.0	.3	.2	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.1	1.0	.1	.0	.0	2.2	.1	1.1	1.0	.4	.0	.0	2.6	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.8	3.9	.1	.0	.0	.0	6.8	
1-2	1.6	17.6	4.7	.0	.0	.0	23.9	
3-4	.1	8.9	15.4	1.6	.0	.0	26.0	
5-6	.0	1.8	12.9	3.9	.2	.0	18.8	
7	.0	.5	6.1	4.3	.5	.0	11.4	
8-9	.0	.3	2.0	2.3	.4	.0	5.1	
10-11	.0	.2	.7	2.0	.6	.0	3.5	
12	.0	.1	.0	.9	.2	.0	1.2	
13-16	.0	.0	.1	1.3	.6	.1	2.1	
17-19	.0	.1	.0	.1	.2	.1	.4	
20-22	.0	.0	.2	.0	.3	.0	.5	
23-25	.0	.0	.0	.1	.1	.0	.1	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.6	33.4	42.2	16.4	3.3	.2	100.0	1792

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	4.2	7.6	6.5	4.1	2.0	1.4	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	591	5
6-7	.0	.5	3.5	6.9	6.2	4.6	2.3	.8	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	558	7
8-9	.0	.2	1.9	3.4	4.6	3.7	2.3	1.4	1.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	441	8
10-11	.0	.3	.2	1.1	1.6	1.4	1.4	.8	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	182	9
12-13	.0	.0	.7	.5	1.1	.7	.6	.6	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	112	9
13	.0	.0	.0	.2	.3	.3	.4	.1	.1	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	48	14
INDET	.2	.6	1.6	2.0	2.8	1.1	1.6	.1	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	214	6
TOTAL	20	123	333	441	442	294	212	91	118	31	19	13	6	0	0	0	0	0	0	2143	7
PCT	.9	5.7	15.5	20.6	20.6	13.7	9.9	4.2	5.5	1.4	.9	.6	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

OCTOBER

AREA 0022 DURBAN
28.65 33.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	1.5	1.0	.7	.0	.0	.0	.0	3.2	1.2	2.0	1.2	.0	2.9	.0	89.8
NE	2.9	1.1	.4	.0	.0	.0	.0	4.4	1.9	2.2	1.0	.0	1.4	.0	89.2
E	3.2	2.2	1.8	.0	.0	.0	.0	6.8	2.7	2.4	1.8	.0	.7	.0	86.0
SE	4.5	4.2	2.8	.0	.0	.0	.0	11.0	4.1	1.8	.4	.0	.4	.0	82.5
S	4.6	5.5	2.3	.0	.0	.0	.0	12.2	2.4	2.6	.9	.0	1.2	.1	81.1
SW	7.0	8.6	2.2	.0	.0	.0	.0	17.5	3.3	3.2	2.5	.0	1.2	.3	73.6
W	5.0	5.7	1.5	.0	.0	.0	.0	12.2	1.1	4.6	.8	.0	3.1	.0	79.0
NW	5.3	.0	2.0	.0	.0	.0	.0	7.3	3.7	3.3	7.8	.0	2.9	.0	78.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8	1.9	3.8	.0	.0	.0	.0	7.5	3.8	3.8	1.9	1.9	.0	.0	81.1
TOT PCT	3.8	3.3	1.6	.0	.0	.0	.0	8.6	2.5	2.4	1.3	*	1.3	.1	84.3
TOT OBS:	3539														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	4.8	3.5	2.0	.0	.0	.0	.0	9.9	3.7	3.6	1.2	.0	.4	.2	81.6
06009	2.9	3.5	1.2	.0	.0	.0	.0	7.3	2.9	.2	1.6	.0	1.7	.0	86.4
12015	2.9	1.7	1.7	.0	.0	.0	.0	5.7	2.3	.5	1.0	.0	2.1	.0	88.5
18021	5.1	4.6	1.6	.0	.0	.0	.0	11.3	1.6	5.3	1.3	.1	1.1	.0	80.5
TOT PCT	3.8	3.3	1.6	.0	.0	.0	.0	8.6	2.6	2.4	1.3	*	1.3	.1	84.3
TOT OBS:	3596														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.4	3.7	5.3	2.6	.3	*		12.4	15.8		12.5	13.2	17.4	12.9	14.1	8.6	8.7	10.7
NE	.6	8.2	11.2	4.0	.5	*		24.4	14.7		26.9	20.5	22.2	21.1	26.8	26.2	27.3	24.4
E	.6	6.0	5.1	1.0	.1	*		12.8	11.9		16.0	11.3	11.0	11.0	12.3	14.1	14.2	12.8
SE	.5	5.5	5.0	1.2	.2	*		12.6	12.9		13.5	10.3	11.1	10.7	14.2	12.6	15.0	12.2
S	.7	5.1	7.7	4.0	1.1	.2		18.8	16.9		18.2	17.5	18.0	19.4	19.0	20.0	19.2	18.8
SW	.7	3.6	5.2	2.6	.8	.2		13.0	17.0		8.6	16.7	14.0	17.0	9.0	13.8	11.1	14.1
W	.3	1.2	.6	.3	.1	*		2.5	11.4		1.4	4.6	2.9	3.1	1.8	2.4	1.4	3.4
NW	.1	1.0	.8	.1	*	.0		2.1	11.0		1.4	2.3	2.8	3.5	1.7	1.4	1.6	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		1.4	3.7	.6	1.3	1.1	.9	1.5	2.4
TOT OBS	337	2128	2537	983	194	26	6205		14.6		657	547	1117	837	702	587	1164	594
TOT PCT	5.4	34.3	40.9	15.8	3.1	.4	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.8	4.9	4.4	1.2	*		12.4	15.8	12.8	15.5	11.6	9.4
NE	3.3	11.8	7.9	1.4	.1		24.4	14.7	24.0	21.7	26.5	26.3
E	2.6	7.4	2.4	.3	*		12.8	11.9	13.9	11.0	13.1	13.7
SE	2.2	6.8	2.9	.6	*		12.6	12.9	12.1	10.9	13.5	14.1
S	2.3	7.7	6.1	2.3	.4		18.8	16.9	17.9	18.6	19.5	19.1
SW	1.7	5.1	4.2	1.6	.4		13.0	17.0	12.3	15.3	11.2	12.1
W	.8	1.1	.4	.1	*		2.5	11.4	2.9	3.0	2.1	2.0
NW	.7	1.0	.4	*	.0		2.1	11.0	1.8	3.1	1.6	1.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	2.4	.9	1.0	1.8
TOT OBS	1044	2844	1780	475	62	6205		14.6	1204	1954	1289	1758
TOT PCT	16.8	45.8	28.7	7.7	1.0	100.0			100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973AREA 0022 DURBAN
28.65 33.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00003	2.4	3.4	35.6	40.0	15.1	3.1	.3	14.3	100.0	1204
06009	.9	5.0	34.1	40.2	15.5	3.7	.6	14.6	100.0	1954
12015	1.0	3.3	32.1	44.3	16.4	2.7	.2	14.8	100.0	1289
18021	1.8	3.7	35.2	39.8	16.3	2.8	.4	14.6	100.0	1758
TOT	91	246	2128	2537	983	194	26	14.6		6205
PCT	1.5	4.0	34.3	40.9	15.8	3.1	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.6	2.8	4.1	2.4		4.1
NE	10.4	4.5	6.6	5.9		4.0
E	3.5	2.8	4.0	4.1		4.9
SE	3.3	2.3	4.6	4.7		5.2
S	2.9	2.2	5.2	7.0		5.7
SW	1.7	1.2	2.6	2.7		5.3
W	.3	.3	.3	.7		5.5
NW	.4	.3	.4	.6		5.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.2	.4		4.3
TOT OBS	679	406	691	693	2469	4.8
TOT PCT	27.5	16.4	28.0	28.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 259	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 TOTAL OBS
N	.1	*	.1	1.0	1.8	.9	.3	*	.1	.2	9.4
NE	.1	*	.2	2.0	3.7	1.5	.4	*	.3	.2	18.4
E	.1	.0	.5	1.2	2.3	1.3	.5	.1	.0	.2	8.4
SE	.1	.1	.4	1.6	3.3	1.1	.4	.1	*	*	7.7
S	.1	.1	.3	2.6	4.3	2.0	.3	.1	*	.0	7.3
SW	.1	.1	.3	1.3	1.8	.5	.1	.1	.1	.1	3.7
W	.0	.0	.1	.3	.2	.2	.1	.0	.1	.0	.7
NW	.0	.0	*	.3	.3	.1	*	.0	.0	.0	1.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	*	.1	.2	.1	.0	.0	.0	.0	.6
TOT OBS	14	9	48	255	445	190	50	13	14	16	1415
TOT PCT	.6	.4	1.9	10.3	18.0	7.7	2.0	.5	.6	.6	57.3

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	2.2	3.6	3.7	3.7	3.7	3.7	3.7	3.7
= OR >2000	8.2	11.1	11.4	11.4	11.4	11.4	11.4	11.4
= OR >1000	20.8	28.4	29.4	29.4	29.4	29.4	29.4	29.4
= OR >600	26.8	38.2	39.6	39.8	39.8	39.8	39.8	39.8
= OR >300	27.5	39.7	41.5	41.7	41.7	41.7	41.7	41.7
= OR >150	27.6	40.0	41.8	42.1	42.1	42.1	42.1	42.1
= OR >0	27.6	40.4	42.2	42.5	42.6	42.6	42.6	42.6
TOTAL	694	1010	1056	1063	1065	1065	1065	1066

TOTAL NUMBER OF OBS: 2500

PCT FREQ NH <5/8: 57.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.8	12.6	12.6	10.4	8.4	5.9	8.3	7.5	21.0	.5	2639

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1955-1973

OCTOBER

AREA 0022 DURBAN
28.65 33.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
1/2<1	PCP	*	*	.0	*	.2	.1	*	*	.0	.0	.4	
	NO PCP	.0	.1	*	*	.1	*	*	.1	.0	.0	.3	
	TOT %	*	.2	*	.1	.3	.1	*	.1	.0	.0	.7	
1/4	PCP	.0	.0	*	.0	.1	*	.0	.0	.0	.0	.1	
	NO PCP	.1	.2	*	*	.1	.1	.0	.1	.0	.0	.5	
	TOT %	.1	.2	.1	*	.2	.1	.0	.1	.0	.0	.7	
2<5	PCP	*	.1	.1	.2	.3	.2	.0	.0	.0	*	1.0	
	NO PCP	.3	.3	.2	.1	.2	.2	*	.1	.0	.0	1.4	
	TOT %	.3	.4	.3	.3	.5	.4	*	.1	.0	*	2.4	
5<10	PCP	.3	.8	.4	1.0	1.3	1.4	.2	.1	.0	.1	5.5	
	NO PCP	3.4	6.2	2.5	3.1	4.7	4.1	.9	.4	.0	.8	26.2	
	TOT %	3.7	7.0	3.0	4.1	6.0	5.5	1.1	.5	.0	.9	31.7	
10+	PCP	.1	.3	.3	.3	.3	.2	.1	.0	.0	.0	1.8	
	NO PCP	8.6	18.3	9.7	9.2	10.3	4.7	.7	1.0	.0	.6	63.0	
	TOT %	8.7	18.5	10.0	9.6	10.6	4.9	.7	1.0	.0	.6	64.5	
TOT OBS													
TOT PCT													
		12.8	26.3	13.3	14.0	17.6	10.9	1.9	1.7	.0	1.5	100.0	3536

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
1/2<1	0-3	.0	.0	.0	.0	*	.0	*	*	.0	.0	*	
	4-10	*	*	*	*	*	.0	.0	.0	.0	.0	.1	
	11-21	.0	.1	.0	*	.1	.1	*	*	.0	.0	.3	
	22+	*	*	.0	.0	.1	.0	.0	*	.0	.0	.2	
	TOT %	*	.1	*	*	.3	.1	*	.1	.0	.0	.6	
1/4	0-3	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	
	4-10	*	.1	.0	*	*	.1	.0	*	.0	.0	.2	
	11-21	*	.1	.0	.0	.1	.1	.0	*	.0	.0	.3	
	22+	*	*	*	*	.1	.1	.0	.0	.0	.0	.3	
	TOT %	*	.2	*	.1	.2	.2	.0	*	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	*	*	*	.0	.0	.1	.1	
	4-10	.2	.2	.1	.2	.1	.2	*	.1	.0	.0	1.0	
	11-21	.1	.3	.1	.1	.3	.3	.1	*	.0	.0	1.3	
	22+	.1	.1	.1	.1	.3	.2	.0	.0	.0	.0	.8	
	TOT %	.4	.6	.3	.4	.6	.7	.1	.1	.0	.1	3.3	
5<10	0-3	*	.2	.1	.1	.1	.4	.1	*	.0	.8	1.8	
	4-10	1.2	2.0	1.2	1.4	1.2	1.6	.6	.2	.0	.0	9.4	
	11-21	1.4	2.9	1.2	1.8	2.5	2.3	.2	.2	.0	.0	12.5	
	22+	1.0	1.6	.3	.6	2.2	1.1	.1	*	.0	.0	6.8	
	TOT %	3.6	6.6	2.8	3.7	6.1	5.4	1.0	.5	.0	.8	30.5	
10+	0-3	.2	.2	.4	.4	.4	.1	.1	.1	.0	.7	2.6	
	4-10	2.4	5.9	4.7	4.4	3.6	1.7	.5	.6	.0	.0	23.8	
	11-21	4.2	8.9	3.9	3.8	5.1	2.5	.2	.5	.0	.0	29.1	
	22+	1.8	2.7	.4	.7	2.2	1.4	*	*	.0	.0	9.3	
	TOT %	8.6	17.8	9.4	9.2	11.2	5.8	.9	1.2	.0	.7	64.8	
TOT OBS													
TOT PCT													
		12.6	25.4	12.6	13.4	18.4	12.2	2.1	1.8	.0	1.5	100.0	4475

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973AREA 0022 DURBAN
28.65 33.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH <5/8 OBS	TOTAL OBS
00003	.8	.3	1.5	11.1	19.0	8.9	2.1	.2	1.2	.7	45.7	54.3	606
06009	.2	.0	2.6	10.9	19.8	6.8	2.1	.5	.3	.6	43.7	56.3	662
12015	.3	.4	1.7	8.2	15.6	7.0	1.4	.9	.7	.4	36.6	63.4	699
18021	1.0	.7	1.7	10.5	15.9	7.5	2.2	.5	.0	.8	40.8	59.2	598
TOT	14	9	48	259	450	193	50	13	14	16	1066	1499	2565
PCT	.5	.4	1.9	10.1	17.5	7.5	1.9	.5	.5	.6	41.6	58.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.3	.3	3.1	28.7	67.4	961
06009	.0	.5	1.3	2.9	30.7	64.5	1297
12015	.0	.7	.8	3.1	28.0	67.4	1028
18021	.0	.8	.8	3.8	34.0	60.6	1246
TOT	1	27	38	147	1386	2933	4532
PCT	*	.6	.8	3.2	30.6	64.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.8	2.7	15.4	32.1	52.5	592
06009	.2	2.8	15.8	29.7	54.6	647
12015	.3	2.5	12.3	25.7	62.0	682
18021	1.0	3.5	15.7	26.6	57.7	579
TOT	14	71	368	711	1421	2500
PCT	.6	2.8	14.7	28.4	56.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	*	.0	*	.0	2	.1
80/84	.0	.0	.0	.1	.2	.5	.1	*	25	.9
75/79	.0	.0	.0	.2	1.1	3.2	4.4	2.1	311	11.0
70/74	.0	.0	.1	.8	5.8	14.1	21.4	12.2	1542	54.3
65/69	.0	*	.4	2.0	4.7	7.9	9.1	5.3	835	29.4
60/64	.0	.0	.0	.4	.8	.8	1.1	1.2	122	4.3
55/59	.0	.0	.0	.0	.0	.0	*	*	2	.1
TOTAL	0	1	13	98	359	751	1025	592	2839	100.0
PCT	.0	*	.5	3.5	12.6	26.5	36.1	20.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	.0	.0	.0	.0
.1	.2	.1	.1	.1	.2	.0	.0	.0	*
2.5	4.7	1.3	.5	.7	.7	.2	.2	.0	.1
8.8	17.1	6.7	6.6	7.6	4.6	1.0	1.1	.0	.8
1.7	5.2	4.1	6.0	7.3	3.7	.5	.4	.0	.6
*	.3	.3	.7	1.4	1.3	.1	*	.0	.2
.0	.0	.0	.0	*	.1	.0	.0	.0	.0
13.2	27.6	12.6	13.8	17.1	10.5	1.8	1.7	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	75	74	69	63	61	59	69.1	1216
06009	83	79	74	71	64	61	59	70.6	1937
12015	86	82	78	72	65	63	58	71.9	1279
18021	81	76	75	70	64	61	58	69.7	1758
TOT	86	79	76	70	64	61	58	70.3	6190

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.9	10.6	22.5	36.5	27.5	82	688
06009	.0	4.7	10.9	27.5	36.9	20.1	80	746
12015	.0	5.5	17.9	30.3	32.7	13.6	78	722
18021	.0	2.5	11.0	24.9	38.1	23.4	81	734
TOT	0	113	364	762	1042	609	80	2890

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PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973AREA 0022 DURBAN
28.65 33.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	*	*	.0	.1	.0	4	.0	.1
9/10	.0	.0	.1	.1	.2	.2	.1	.1	22	*	.6
7/8	.0	.0	.0	.1	.2	.5	.3	.0	36	.1	1.0
6	.0	.0	*	.2	.4	.1	*	.0	26	.0	.8
5	.0	.0	*	.2	.6	.6	.1	.0	51	.0	1.5
4	.0	.0	.2	.7	1.8	.5	.0	.0	108	.1	3.2
3	.0	*	.1	1.4	2.3	.3	.1	.0	140	*	4.2
2	.0	*	.5	3.1	3.7	.7	*	.0	269	.2	7.8
1	.0	*	.9	4.9	4.9	.4	*	.0	369	.3	10.8
0	.0	.1	2.1	7.9	4.8	.2	.0	.0	503	.1	15.0
-1	.0	.1	2.6	7.4	3.3	*	.0	.0	450	.0	13.5
-2	.0	.4	3.4	7.0	1.7	*	.0	.0	415	.1	12.3
-3	.0	.4	2.9	4.4	.8	.0	.0	.0	286	*	8.5
-4	.0	1.1	3.1	3.0	.3	.0	.0	.0	249	.2	7.3
-5	.0	.5	2.5	1.7	.1	.0	.0	.0	161	*	4.8
-6	*	.5	1.5	.9	.1	.0	.0	.0	99	.1	2.9
-7/-8	.0	1.0	1.5	.7	.1	.0	.0	.0	109	.0	3.3
-9/-10	.0	.4	.3	*	.0	.0	.0	.0	24	.0	.7
-11/-13	.1	.1	.2	.0	.0	.0	.0	.0	13	.0	.4
-14/-16	*	*	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	4	155	732	1464	836	121	22	2	3336	41	3295
PCT	.1	4.6	21.9	43.9	25.1	3.6	.7	.1	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	*	.1	.0	.0	.0	.0	.1	.1	.3	.1	.0	.0	.0	.5
1-2	.1	2.0	.9	.0	.0	.0	3.0	*	4.6	1.5	.0	.0	.0	6.2
3-4	.1	1.4	2.7	.2	.0	.0	4.4	.1	2.8	5.7	.4	.0	.0	8.9
5-6	.0	.3	2.0	.5	.1	.0	2.9	.0	.5	3.9	1.3	.0	.0	5.7
7	.0	.0	1.1	.5	.1	.0	1.7	.0	.2	2.2	1.6	*	.0	4.0
8-9	.0	.0	.5	.5	.1	.0	1.0	.0	.1	.9	.7	.0	.0	1.7
10-11	.0	.0	.2	.8	.1	.0	1.1	.0	.0	.1	.6	*	.0	.7
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.2	.1	.0	.4
13-16	.0	.0	.0	.4	*	.0	.4	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	*	.0	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.9	7.3	3.1	.5	.0	15.0	.2	8.5	14.5	4.8	.2	.0	28.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.3	.0	.0	.0	.0	.5	.2	.3	.0	.0	.0	.0	.5
1-2	.2	3.4	.9	.0	.0	.0	4.5	*	3.6	.6	.0	.0	.0	4.2
3-4	.0	1.1	3.1	.2	.0	.0	4.5	.1	2.2	1.8	.0	.0	.0	4.1
5-6	.0	.4	1.6	.3	.0	.0	2.4	.0	.3	2.8	.4	.0	.0	3.5
7	.0	.0	.7	.4	.0	.0	1.1	.0	.1	1.0	.5	.0	.0	1.7
8-9	.0	.0	.2	*	.0	.0	.2	.0	.0	.2	.2	.0	.0	.5
10-11	.0	.0	.1	.2	.0	.0	.2	.0	.0	*	.1	.1	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	*	*	.0	.1
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.3	6.6	1.4	.0	.0	13.5	.2	6.6	6.5	1.2	.1	*	14.6

PERIOD: (OVER-ALL) 1963-1973

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AREA 0022 DURBAN
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.2	.3	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.1	
1-2	.2	2.4	.8	.0	.0	.0	3.4	.0	1.0	.5	.0	.0	.0	1.5	
3-4	.0	1.2	2.2	.4	.0	.0	3.8	.1	.7	.9	.1	.0	.0	1.7	
5-6	.0	.7	2.0	.6	.1	.0	3.4	.0	.2	.8	.3	.0	.0	1.3	
7	.0	.1	1.0	.8	.1	.0	1.8	.0	.0	.8	.3	.0	.0	1.1	
8-9	.0	.1	.6	1.0	.4	.0	2.1	.0	.0	.1	.4	.1	.0	.5	
10-11	.0	.0	.2	.6	.1	.0	.9	.0	.0	.2	.2	.1	.0	.5	
12	.0	.0	.1	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.5	.2	.0	.7	.0	.0	.0	.2	.2	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.1	.1	.1	.0	.3	.0	.0	.0	.1	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.7	7.1	4.1	1.1	*	17.3	.1	2.0	3.2	1.6	.6	.0	7.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.1	.0	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	*	
1-2	.1	.3	.1	.0	.0	.0	.4	.1	.6	.2	.0	.0	.0	.9	
3-4	.0	.1	.1	.0	.0	.0	.3	.0	.2	.2	.0	.0	.0	.5	
5-6	.0	.1	.3	.0	.0	.0	.4	.0	*	.4	.0	.0	.0	.4	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.1	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.5	.6	.0	.0	.0	1.2	.1	.9	.8	.1	*	.0	2.0	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	2.1	1.5	.1	.0	.0	.0	3.6	
1-2	.6	17.8	5.3	.0	.0	.0	23.9	
3-4	.2	9.8	16.6	1.2	.0	.0	27.8	
5-6	.0	2.7	13.6	3.4	.2	.0	19.8	
7	.0	.3	6.8	4.2	.2	.0	11.5	
8-9	.0	.2	2.4	2.9	.5	.0	6.0	
10-11	.0	.1	.8	2.4	.3	.0	3.6	
12	.0	.0	.2	.5	.2	.0	.9	
13-16	.0	.0	.1	1.1	.5	.0	1.8	
17-19	.0	.0	.0	.1	.2	.0	.5	
20-22	.0	.0	.0	.1	.2	.1	.5	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	32.2	46.3	16.2	2.4	.1	100.0	1842

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	*	4.1	8.3	7.7	3.7	2.8	1.5	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	641	5
6-7	.0	.6	4.8	7.2	7.5	4.3	3.3	1.0	1.9	.1	.3	*	.0	.0	.0	.0	.0	.0	.0	681	7
8-9	.0	.5	1.3	4.5	4.8	2.6	2.4	1.3	1.4	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	417	8
10-11	.0	.2	.2	1.4	1.2	1.2	1.0	.7	.5	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	150	9
12-13	.0	.0	.6	.5	.4	.2	.5	.4	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	71	8
>13	.0	.0	.0	.2	.2	.1	.3	.0	.3	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	29	12
INDET	.7	.7	1.4	2.7	1.7	.5	.9	.1	.6	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	206	6
TOTAL	17	137	366	527	426	257	218	84	122	15	22	4	0	0	0	0	0	0	0	2195	7
PCT	.8	6.2	16.7	24.0	19.4	11.7	9.9	3.8	5.6	.7	1.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1916-1973
(OVER-ALL) 1855-1973AREA 0022 DURBAN
28.65 33.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
N	1.7	.9	.7	.0	.0	.0	.0	3.1	1.2	3.3	1.6	.0	2.1	.2	89.3
NE	1.7	.8	.6	.0	.0	.0	.0	3.0	.4	1.8	1.2	.0	1.2	.2	92.6
E	1.0	.9	2.7	.0	.0	.0	.0	4.4	2.1	2.4	.2	.0	1.5	.0	89.7
SE	3.1	3.1	1.6	.0	.0	.0	.0	7.5	3.4	2.2	.3	.0	.1	.0	86.8
S	6.9	3.8	3.2	.0	.0	.0	.0	13.6	4.5	1.7	1.0	.0	.4	.3	79.2
SW	5.8	2.4	4.0	.0	.0	.0	.0	11.9	4.2	2.5	1.1	.0	1.0	.4	79.2
W	9.2	2.3	4.6	.0	.0	.0	.0	16.1	1.8	.9	3.2	.0	1.4	.0	77.5
NW	3.7	2.2	1.5	.0	.0	.0	.0	7.4	1.5	3.7	.0	.0	5.2	.0	82.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	2.0	.0	.0	.0	.0	.0	3.9	2.0	.0	2.0	.0	.0	.0	92.2
TOT PCT	3.3	1.9	1.9	.0	.0	.0	.0	7.0	2.4	2.2	1.0	.0	1.1	.2	86.8
TOT OBS:	3403														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
00003	3.3	1.6	2.2	.0	.0	.0	.0	6.8	3.2	3.9	1.0	.0	.8	.0	84.7
06009	3.8	1.5	1.4	.0	.0	.0	.0	6.5	1.7	.1	1.6	.0	1.0	.2	89.0
12015	3.0	2.0	2.2	.0	.0	.0	.0	7.0	1.3	.3	.9	.0	1.4	.1	89.2
18021	3.7	2.3	1.9	.0	.0	.0	.0	7.8	3.2	4.6	.3	.0	1.2	.3	83.8
TOT PCT	3.4	1.9	1.9	.0	.0	.0	.0	7.0	2.3	2.2	1.0	.0	1.1	.2	86.8
TOT OBS:	3482														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.9	6.0	1.7	.3	*		12.3	14.4		12.0	16.8	17.1	12.5	13.4	8.6	8.0	10.1
NE	.6	8.3	13.2	3.9	.4	.0		26.4	14.6		28.5	24.2	23.7	22.8	29.5	25.9	29.0	27.6
E	.6	7.2	4.4	.6	*	.0		12.9	10.7		13.7	11.3	10.1	11.1	11.8	16.2	14.9	15.4
SE	.5	5.9	4.8	1.3	.1	*		12.5	12.4		13.8	9.7	10.2	12.1	12.3	13.4	14.9	13.3
S	.4	5.4	7.7	4.3	.8	*		18.5	16.4		16.6	16.5	18.4	19.6	18.9	20.3	19.6	17.0
SW	.4	3.2	4.7	2.3	.6	*		11.2	16.3		9.4	12.6	12.5	14.3	9.6	10.3	9.5	11.8
W	.2	1.1	.7	.2	*	*		2.2	11.8		.7	4.1	3.1	3.1	1.4	2.5	1.3	2.3
NW	.2	1.2	.7	.2	*	*		2.3	10.4		2.4	3.7	3.3	2.6	1.7	1.2	1.5	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		2.9	1.0	1.5	1.7	1.4	1.6	1.3	1.1
TOT OBS	298	2175	2533	869	130	7	6012		13.9		652	503	1079	802	707	561	1155	553
TOT PCT	5.0	36.2	42.1	14.5	2.2	.1	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.8	6.0	3.7	.7	.1		12.3	14.4	14.1	15.2	11.3	8.7
NE	3.3	13.2	8.3	1.6	*		26.4	14.6	26.6	23.3	27.9	28.5
E	2.9	7.9	1.9	.1	*		12.9	10.7	12.6	10.6	13.7	15.1
SE	2.7	6.7	2.9	.3	*		12.5	12.4	12.0	11.0	12.8	14.4
S	2.3	7.6	6.3	2.2	.1		18.5	16.4	16.6	18.9	19.5	18.8
SW	1.4	4.7	3.5	1.3	.2		11.2	16.3	10.9	13.3	9.9	10.2
W	.6	1.1	.4	.1	*		2.2	11.8	2.1	3.1	1.9	1.6
NW	.8	1.1	.2	.1	.0		2.3	10.4	2.9	3.0	1.5	1.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	2.1	1.6	1.5	1.2
TOT OBS	1042	2911	1638	390	31	6012		13.9	1155	1881	1268	1708
TOT PCT	17.3	48.4	27.2	6.5	.5	100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1916-1973
(OVER-ALL) 1855-1973

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AREA 0022 DURBAN
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00103	2.1	4.3	36.0	42.5	13.2	1.8	.1	13.6	100.0	1155
06109	1.6	3.6	37.2	41.4	13.6	2.6	.2	13.8	100.0	1881
12115	1.5	2.4	33.4	44.0	16.9	1.7	.1	14.5	100.0	1268
18121	1.2	3.3	37.3	41.3	14.5	2.2	.1	13.9	100.0	1708
TOT	.94	204	2175	2533	869	130	7	13.9		6012
PCT	1.6	3.4	36.2	42.1	14.5	2.2	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	4.8	2.2	3.9	2.5		4.1
NE	11.6	5.3	7.1	5.0		3.8
E	3.0	2.1	4.5	2.7		4.9
SE	2.4	2.6	3.7	3.9		5.2
S	2.5	2.9	5.2	8.6		5.9
SW	.8	1.4	2.2	4.1		6.1
W	.2	.2	.3	.5		5.3
NW	.4	.5	.7	.7		5.4
VAR	.0	.0	.0	.0		.0
CALW	.5	.2	.3	.5		4.6
TOT OBS	643	430	687	698	2458	4.6
TOT PCT	26.2	17.5	27.9	28.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.1	*	*	1.0	1.5	.9	.3	.1	*	.1	9.2	
NE	.1	*	.1	2.0	2.7	1.6	.4	.5	.1	.2	21.2	
E	.1	.0	.2	1.2	1.9	1.3	.4	.2	*	*	7.0	
SE	.0	.1	.4	1.5	2.4	.8	.4	*	.1	.2	6.8	
S	.1	.1	.5	2.9	4.4	1.9	.8	.3	.1	.2	7.9	
SW	.1	*	.3	1.5	2.3	.8	.5	.1	.0	*	2.9	
W	.0	*	.1	.2	.1	.2	.0	.0	.0	.0	.6	
NW	.0	.0	.1	.2	.5	.2	.1	*	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALW	.0	.0	*	.2	.2	*	.1	.0	.1	*	.8	
TOT OBS	9	7	43	264	396	190	77	29	12	19	1412	2458
TOT PCT	.4	.3	1.7	10.7	16.1	7.7	3.1	1.2	.5	.8	57.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			OR			OR			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>10	>5	>2	>0
* OR >6500	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3				
* OR >5000	1.6	2.4	2.5	2.5	2.5	2.5	2.5	2.5				
* OR >3500	4.2	5.4	5.5	5.5	5.5	5.5	5.5	5.5				
* OR >2000	10.3	12.7	13.1	13.1	13.1	13.1	13.2	13.2				
* OR >1000	21.6	27.8	29.0	29.1	29.1	29.1	29.1	29.1				
* OR >600	28.3	37.6	39.5	39.7	39.7	39.8	39.8	39.8				
* OR >300	29.1	39.3	41.2	41.6	41.6	41.6	41.6	41.6				
* OR >150	29.1	39.5	41.5	41.8	41.8	41.9	41.9	41.9				
* OR >0	29.3	39.7	41.9	42.2	42.2	42.2	42.3	42.3				
TOTAL	733	995	1049	1057	1057	1058	1059	1059				

TOTAL NUMBER OF OBS: 2505

PCT FREQ NH <5/8: 57.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	12.4	14.6	11.5	11.3	7.4	6.7	8.1	7.0	20.8	.2	2653

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	.1	.1	.0	.0	.0	.0	.0	.7
	NO PCP	*	*	.0	.0	*	*	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	.1	.1	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	*	.0	*	.1	*	.0	.0	.0	.0	.0	.1
	NO PCP	.1	.1	.0	.0	*	*	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.0	*	.1	.1	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.1	.1	.1	*	.0	.0	.0	.0	.7
	NO PCP	.1	.1	.2	*	.1	*	.0	*	.0	*	.6	
	TOT %	.1	.1	.2	.1	.2	.1	*	*	.0	*	.6	
2<5	PCP	*	.1	.1	.1	.6	.2	.1	.0	.0	.0	1.1	1.3
	NO PCP	.2	.3	*	.1	.3	.3	*	.0	.0	*	1.3	
	TOT %	.2	.4	.2	.2	.9	.5	.1	.0	.0	*	2.4	
5<10	PCP	.2	.5	.4	.6	1.3	.6	.1	.1	.0	.1	3.0	20.9
	NO PCP	2.6	5.2	2.6	2.4	3.9	2.9	.6	.4	.0	.3	20.9	
	TOT %	2.8	5.6	3.0	3.0	5.2	3.5	.8	.5	.0	.4	24.8	
10+	PCP	.1	.3	.1	.2	.5	.2	*	*	.0	.0	1.5	69.6
	NO PCP	9.3	21.4	9.3	9.2	12.2	5.2	7	1.4	.0	1.1	69.6	
	TOT %	9.5	21.6	9.4	9.5	12.7	5.4	.7	1.5	.0	1.1	71.3	
TOT OBS													
TOT PCT													
		12.7	27.9	12.7	12.8	19.1	9.6	1.6	2.0	.0	1.5	100.0	3402

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	*	*	*	.0	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	TOT %	*	*	*	*	.1	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1
	4-10	*	*	*	*	*	*	.0	.0	.0	.0	.1	
	11-21	.1	.1	.0	*	.1	*	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.1	.1	.0	*	.1	*	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.3
	4-10	*	*	.1	*	*	*	*	.0	.0	.0	.3	
	11-21	.1	*	*	*	.1	.1	*	*	.0	.0	.4	
	22+	*	.0	.0	.1	.1	*	*	.0	.0	.0	.2	
	TOT %	.1	.1	.1	.1	.2	.2	.1	*	.0	*	.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.1	.7
	4-10	.1	.2	.1	*	.1	.1	.1	*	.0	.0	.7	
	11-21	.1	.2	.1	.1	.2	.2	.1	.0	.0	.0	1.0	
	22+	.1	.1	*	.1	.6	.2	.0	.0	.0	.0	1.2	
	TOT %	.2	.5	.3	.2	.9	.5	.1	*	.0	*	2.9	
5<10	0-3	.1	.1	.2	.1	.1	.1	.1	*	.0	.3	1.1	7.2
	4-10	.8	1.7	1.2	.9	1.1	.9	.3	.3	.0	.0	7.2	
	11-21	1.1	2.5	1.1	1.4	2.3	1.7	.3	.2	.0	.0	10.6	
	22+	.5	1.1	.2	.4	1.5	.8	*	*	.0	.0	4.6	
	TOT %	2.5	5.3	2.7	2.8	5.0	3.6	.8	.5	.0	.3	23.5	
10+	0-3	.4	.4	.3	.3	.2	.3	.2	.2	.0	1.1	3.4	26.7
	4-10	2.8	6.7	5.8	4.6	3.6	1.7	.5	1.0	.0	.0	26.7	
	11-21	5.1	11.3	3.3	3.6	5.5	2.6	.3	.4	.0	.0	32.1	
	22+	1.0	3.2	.3	.9	3.0	1.3	.1	*	.0	.0	10.0	
	TOT %	9.4	21.7	9.8	9.4	12.2	5.9	1.0	1.6	.0	1.1	72.2	
TOT OBS													
TOT PCT													
		12.4	27.8	12.9	12.6	18.5	10.2	2.0	2.2	.0	1.5	100.0	4439

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PERIOD: (PRIMARY) 1916-1973
(OVER-ALL) 1855-1973AREA 0022 DURBAN
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.3	2.3	12.7	17.4	7.5	3.1	1.2	.5	1.3	46.7	53.3	604
06009	.6	.6	2.0	10.6	16.7	8.8	2.1	1.1	.0	.9	43.5	56.5	658
12015	.4	.1	1.7	7.9	15.1	5.8	2.5	.8	.8	.4	35.7	64.3	720
18021	.0	.0	1.2	10.6	12.8	7.9	4.4	1.5	.5	.7	39.4	60.6	596
TOT	9	7	46	267	400	192	77	29	12	21	1060	1518	2578
PCT	.3	.3	1.8	10.4	15.5	7.4	3.0	1.1	.5	.8	41.1	58.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.1	.5	2.2	21.3	75.8	944
06009	.3	.7	1.0	2.8	23.9	71.3	1277
12015	.3	.4	.9	3.8	20.3	74.4	1053
18021	.2	.2	1.0	3.0	27.8	67.9	1246
TOT	9	16	40	134	1066	3255	4520
PCT	.2	.4	.9	3.0	23.6	72.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50yd	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	3.2	17.8	30.3	51.9	594
06009	.6	3.3	15.3	29.7	55.0	636
12015	.4	2.4	12.7	24.1	63.1	700
18021	.0	1.4	13.6	27.7	58.8	575
TOT	9	65	370	697	1438	2505
PCT	.4	2.6	14.8	27.8	57.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	*	.1	.0	*	6	.2
80/84	.0	.0	*	.1	.4	1.0	.8	.3	69	2.6
75/79	.0	.0	.1	.7	2.2	8.5	10.0	4.3	694	25.8
70/74	.0	.0	.3	1.6	6.3	14.8	18.0	11.4	1413	52.4
65/69	.0	.0	.3	2.1	3.8	4.2	4.0	2.2	444	16.5
60/64	.0	.0	.1	.3	.7	.3	.7	.4	67	2.5
55/59	.0	.0	.0	.0	.0	*	.0	*	2	.1
TOTAL	0	0	21	131	362	777	903	501	2695	100.0
PCT	.0	.0	.8	4.9	13.4	28.8	33.5	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.1	.1	*	.0	.0	*	*	*	.0	.0
80/84	.5	1.1	.2	.2	.3	.1	*	*	.0	*
75/79	5.5	8.8	2.7	2.2	2.3	2.4	.7	.7	.0	.4
70/74	6.3	15.4	7.0	7.0	9.2	5.0	.5	1.2	.0	.8
65/69	.7	1.9	2.3	3.2	6.1	1.4	.2	.2	.0	.4
60/64	*	.0	.2	.5	1.3	.4	.0	*	.0	.1
55/59	.0	.0	.0	.0	*	*	*	*	.0	.0
TOTAL	13.2	27.3	12.4	13.1	19.2	9.4	1.4	2.2	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	78	76	72	65	62	58	71.1	1161
06009	86	81	78	73	66	62	60	72.8	1866
12015	87	83	80	74	67	64	59	73.7	1262
18021	84	79	77	72	65	63	60	71.6	1659
TOT	87	81	78	73	66	63	58	72.3	5988

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.3	10.8	22.7	37.8	25.4	81	669
06009	.0	6.2	14.3	28.3	34.8	16.3	79	706
12015	.0	8.1	16.0	36.4	28.6	10.9	77	706
18021	.0	4.4	12.3	27.5	33.1	22.7	80	677
TOT	0	153	369	795	925	516	79	2758

PERIOD: (PRIMARY) 1916-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 69	69 72	73 76	77 80	81 84	85 88	TOT FOG	W FOG	WD FOG
11/13	.0	.0	.0	.0	*	*	.1	.0	5	.0	.2
9/10	.0	.0	.0	.0	*	*	.1	*	5	.0	.2
7/8	.0	.0	.0	*	.0	.2	.2	*	14	.0	.4
6	.0	.0	.0	*	.1	.2	.3	.0	18	.0	.6
5	.0	.0	.0	.2	.5	.6	.3	*	51	.1	1.5
4	.0	*	*	.3	1.2	1.3	.2	.1	98	.0	3.1
3	.0	.0	.1	.3	1.9	.9	.1	.0	103	.1	3.1
2	.0	.0	.1	1.1	4.4	1.9	.2	*	243	.2	7.5
1	.0	.0	.1	2.9	6.8	1.6	.1	.0	365	.1	11.3
0	.0	.1	.5	5.5	9.5	1.7	*	.0	592	.3	17.0
-1	.0	.0	1.0	5.3	7.1	.4	.1	.0	446	.1	13.9
-2	.0	.1	1.5	5.6	4.6	.7	*	.0	398	*	12.5
-3	.0	.1	1.4	4.1	2.2	.2	.0	.0	255	.1	7.9
-4	.0	.1	1.8	2.9	1.5	*	*	.0	201	.0	6.3
-5	.0	.4	1.9	2.2	.7	.0	.0	.0	165	*	5.1
-6	*	.3	1.3	1.1	.4	.0	.0	.0	102	.0	3.2
-7/-8	*	.5	1.4	.9	.4	.0	.0	.0	103	.0	3.2
-9/-10	*	.3	.6	.4	.0	.0	.0	.0	40	.0	1.3
-11/-13	.1	.3	.2	.1	.0	.0	.0	.0	19	.0	.6
-14/-16	.0	.1	*	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	5	73	381	1044	1316	310	6	3187	32	3155	
PCT	.2	2.3	12.0	32.8	41.3	9.7	1.6	.2	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.1	*	.0	.0	.0	.4	.2	.8	*	.0	.0	.0	.8
1-2	.1	1.9	.7	.0	.0	.0	2.8	.2	4.6	1.5	.0	.0	.0	6.4
3-4	.1	.9	2.8	.3	.0	.0	4.1	.0	2.7	5.6	.6	.0	.0	8.8
5-6	.0	.1	2.0	.8	.0	.0	2.8	.0	.3	5.1	1.4	.0	.0	6.8
7	.0	.0	1.1	.7	.0	.0	1.8	.1	.1	2.1	1.3	.1	.0	3.7
8-9	.0	.0	.4	.3	.0	.0	.7	.0	.0	.5	.9	.1	.0	1.4
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.5	.0	.0	.7
12	.0	.0	*	.1	*	.0	.2	.0	.0	.1	.2	*	.0	.3
13-16	.0	.0	*	*	.1	.0	.2	.0	.0	*	.3	.2	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	7.2	2.3	.1	.0	13.0	.3	8.4	15.2	5.2	.5	.0	29.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.1	.0	.0	.0	1.3	.1	1.0	.0	.0	.0	.0	1.1
1-2	*	3.9	.9	.0	.0	.0	4.9	.1	2.2	.4	.0	.0	.0	2.6
3-4	.0	2.0	1.3	.0	.0	.0	3.3	.0	1.2	1.6	.4	.0	.0	3.2
5-6	.0	.5	1.2	.2	.0	.0	1.9	.0	.3	1.9	.3	.0	.0	2.5
7	.0	.1	.6	.2	.0	.0	.9	.0	.1	.8	.6	.1	.0	1.5
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.3	.1	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.1	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	*	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.4	4.3	.6	.0	.0	12.6	.2	4.8	5.3	2.0	.2	.0	12.5

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0022 DURBAN
28.65 33.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	*	.7	.0	.0	.0	.0		.7	.3	.0	.0	.0	.0	.0		.6
1-2	.3	2.3	.6	.0	.0	.0		3.1	.1	1.0	.2	.0	.0	.0		1.3
3-4	.0	1.0	2.2	.1	.0	.0		3.3	.0	.6	1.4	.2	.0	.0		2.2
5-6	.0	.2	2.8	1.0	.1	.0		4.1	.0	.2	1.6	.4	.0	.0		2.1
7	.0	.0	1.3	1.5	.1	.0		2.9	.0	.0	.9	.9	.1	.0		1.9
8-9	.0	.1	.5	1.7	.1	.0		2.4	.0	.0	.2	.3	.0	.0		.5
10-11	.0	.1	.1	.5	.0	.0		.7	.0	.0	.1	*	.1	.0		.2
12	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.1	.0	.0		.1
13-16	.0	.0	*	.3	.2	.1		.6	.0	.0	.0	.1	.1	.0		.1
17-19	.0	.0	.0	.1	.1	.0		.1	.0	.0	.0	.0	.1	.0		.1
20-22	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	4.3	7.5	5.6	.7	.1		18.5	.4	2.0	4.4	1.9	.4	.0		9.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	*	.2	.0	.0	.0	.0		.2	.0	.1	.0	.0	.0	.0		.1	
1-2	.2	.4	.1	.0	.0	.0		.6	.1	.7	.1	.0	.0	.0		.9	
3-4	.0	.2	.1	.0	.0	.0		.4	.0	.3	.1	.0	.0	.0		.4	
5-6	.0	.1	*	.0	.0	.0		.2	.0	*	.2	.0	.0	.0		.2	
7	.0	.0	*	.0	.0	.0		*	.0	.0	.1	*	.0	.0		.1	
8-9	.0	.0	*	.0	.0	.0		*	.0	.0	*	*	.0	.0		*	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	.8	.4	*	.0	.0		1.4	.1	1.2	.4	.1	.0	.0		1.7	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.3	4.1	.2	.0	.0	.0	7.5	
1-2	1.4	16.9	4.4	.0	.0	.0	22.7	
3-4	.1	8.9	14.8	1.5	.0	.0	25.3	
5-6	.0	1.6	14.5	4.0	.1	.0	20.2	
7	.1	.3	6.8	5.1	.4	.0	12.6	
8-9	.0	.1	2.1	3.5	.2	.0	5.9	
10-11	.0	.1	.6	1.4	.1	.0	2.1	
12	.0	.0	.2	.9	.1	.0	1.2	
13-16	.0	.0	.3	.9	.7	.1	1.9	
17-19	.0	.0	.1	.1	.3	.0	.4	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	31.9	43.9	17.5	1.9	.1	100.0	1821

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	5.1	8.1	7.1	4.1	2.0	1.1	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	635	5
6-7	*	.6	3.2	8.4	7.1	4.7	2.6	.9	1.4	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	641	7
8-9	.0	*	1.0	3.9	5.7	2.9	2.6	1.3	1.3	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	422	8
10-11	.0	.4	.5	.3	1.4	1.5	.7	.9	.7	.5	.1	.0	*	.0	.0	.0	.0	.0	.0	163	9
12-13	.0	.0	.3	.4	.2	.3	.1	.3	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	50	9
13	.0	.0	.0	.3	.5	.2	.2	.1	.3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	36	9
INDET	.9	.6	.9	2.2	1.8	1.8	1.2	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	6
TOTAL	38	146	304	502	450	294	187	91	109	33	8	3	4	0	0	0	0	0	0	2169	7
PCT	1.8	6.7	14.0	23.1	20.7	13.6	8.6	4.2	5.0	1.5	.4	.1	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1856-1973

DECEMBER

AREA 0022 DURBAN
28.65 33.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.6	1.0	.3	.0	.0	.0	.0	2.9	1.5	4.5	.8	.0	1.6	.3	88.8
NE	1.3	.4	.7	.0	.0	.0	.0	2.3	1.9	2.5	1.1	.0	1.2	.0	91.2
E	1.0	1.1	1.6	.0	.0	.0	.0	3.3	1.3	1.7	.5	.0	.3	.0	93.0
SE	3.7	1.7	2.2	.0	.0	.0	.1	7.6	3.0	1.2	.8	.0	.3	.0	87.5
S	2.7	4.6	2.0	.0	.0	.0	.1	9.4	4.4	2.5	.2	.0	.7	.3	83.1
SW	4.3	2.4	1.2	.0	.0	.0	.0	7.5	8.6	4.3	1.0	.0	.8	.0	77.8
W	4.0	4.5	2.3	.0	.0	.0	.0	10.8	1.7	2.3	5.7	.0	4.5	.0	77.3
NW	2.2	2.6	1.7	.0	.0	.0	.0	6.6	3.5	1.3	.0	.0	2.6	.0	86.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3	.0	.0	.0	.0	.0	.0	2.3	2.3	2.3	.0	.0	.0	.0	93.2
TOT PCT	2.2	1.7	1.3	.0	.0	.0	*	5.1	2.9	2.5	.8	.0	.9	.1	87.9
TOT OBS:	3283														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.2	2.2	1.7	.0	.0	.0	.0	5.9	3.6	5.4	.5	.0	.0	.0	84.9
0600	2.6	1.9	1.6	.0	.0	.0	.1	6.0	2.0	.6	1.3	.0	1.3	.0	89.4
1200	1.5	1.8	.8	.0	.0	.0	.0	4.2	3.2	.5	.6	.0	1.2	.2	90.2
1800	2.5	1.3	1.1	.0	.0	.0	.0	4.7	2.7	4.4	.9	.0	.9	.1	86.6
TOT PCT	2.2	1.8	1.3	.0	.0	.0	*	5.2	2.9	2.6	.9	.0	.9	.1	87.9
TOT OBS:	3366														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	4.0	4.9	1.5	.1	*		10.9	13.8		10.6	14.0	16.8	10.8	11.4	7.1	6.7	7.9
NE	.9	10.5	12.5	3.0	.2	.0		27.1	13.1		29.6	22.5	26.6	25.0	27.2	29.5	28.7	26.9
E	.8	8.6	4.3	.6	*	.0		14.4	10.2		15.6	12.6	10.8	15.2	13.7	16.2	16.7	15.4
SE	.6	7.2	5.0	.8	.1	.0		13.7	11.0		13.3	10.2	13.7	12.6	16.2	11.2	15.5	14.2
S	.7	5.3	8.2	3.3	.8	.1		18.4	15.7		17.3	19.5	16.2	17.1	18.8	20.5	19.9	19.2
SW	.4	2.9	3.8	2.3	.5	*		10.0	16.8		7.0	13.0	9.6	12.3	8.0	11.4	8.9	12.1
W	.2	1.0	.5	.2	*	.0		1.9	11.0		1.0	3.4	2.3	2.7	1.4	2.3	1.2	1.5
NW	.2	1.1	.5	.1	.0	.0		1.9	9.3		2.6	3.2	2.3	2.6	1.8	1.4	.8	1.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		2.9	1.6	1.7	1.7	1.6	.4	1.5	1.5
TOT OBS	309	2144	2107	623	99	8	5290		13.0		596	443	975	698	637	469	994	478
TOT PCT	5.8	40.5	39.8	11.8	1.9	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	1.7	5.4	3.1	.5	.1		10.9	13.8		12.1	14.3	9.6	7.1
NE	4.5	14.7	7.1	.8	*		27.1	13.1		26.6	25.9	28.1	28.2
E	3.7	9.1	1.5	.1	.0		14.4	10.2		14.3	12.6	14.7	16.3
SE	3.3	8.4	1.9	.2	*		13.7	11.0		12.0	13.3	14.1	15.1
S	2.6	7.9	6.1	1.4	.3		18.4	15.7		18.2	16.6	19.5	19.7
SW	1.5	3.6	3.4	1.3	.2		10.0	16.8		9.6	10.7	9.4	9.9
W	.6	1.0	.2	.1	*		1.9	11.0		2.1	2.4	1.8	1.3
NW	.7	.9	.3	*	.0		1.9	9.3		2.8	2.4	1.6	1.0
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	1.6						1.6	.0		2.3	1.7	1.1	1.5
TOT OBS	1073	2696	1250	238	33	5290		13.0		1039	1673	1106	1472
TOT PCT	20.3	51.0	23.6	4.5	.6		100.0			100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1915-1973
(COVER-ALL) 1856-1973AREA 0022 DURBAN
28.65 33.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.3	3.9	43.8	39.1	9.4	1.3	.1	12.4	100.0	1039
06009	1.7	5.7	41.7	38.5	10.5	1.8	.2	12.5	100.0	1673
12015	1.1	3.6	37.1	42.1	13.8	2.1	.2	13.8	100.0	1106
18021	1.5	3.1	39.5	40.1	13.4	2.2	.1	13.3	100.0	1472
TOT	87	222	2144	2107	623	99	8	13.0		5290
PCT	1.6	4.2	40.5	39.8	11.8	1.9	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	4.7	2.1	3.3	2.0	4.0	3.6
NE	12.7	5.1	6.9	4.2	3.9	4.6
E	5.0	3.1	3.9	1.9	5.3	5.4
SE	4.0	3.7	3.6	3.9	5.6	4.2
S	4.0	2.7	4.9	6.8	4.0	3.2
SW	1.4	1.1	2.0	2.4	4.3	
W	.1	.3	.4	.4		
NW	.1	.2	.6	.3		
VAR	.0	.0	.0	.0		
CALM	.9	.3	.4	.2		
TOT OBS	788	434	607	517	2346	
TOT PCT	33.6	18.5	25.9	22.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH	<5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY	HGT	OBS
.0	*	.2	.6	1.4	.5	.4	.2	.0	.1	8.5		
.2	*	.2	1.8	2.7	1.6	.9	.2	.0	.1	21.3		
.1	.0	.2	.5	1.3	1.0	.4	*	*	.1	10.2		
.1	.0	.1	1.4	2.2	1.2	.3	.3	.0	.0	9.6		
.0	*	.5	2.7	3.2	2.2	.4	.1	.1	.0	9.1		
*	*	.2	.7	1.6	.6	.3	*	*	.0	3.2		
.0	.0	*	.2	.1	.1	.1	.0	.0	.0	.5		
.0	.0	.1	.1	.2	.1	.0	.0	.0	*	1.3		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.1	.1	.1	*	.0	*	.0	1.3		
5	4	38	193	302	174	69	21	6	9	1525	2346	
.2	.2	1.6	8.2	12.9	7.4	2.9	.9	.3	.4	65.0	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >5000	.7	.8	.8	.8	.8	.8	.8	.8
>OR >5000	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>OR >3500	3.4	4.5	4.6	4.6	4.6	4.6	4.6	4.6
>OR >2000	9.3	11.7	12.1	12.1	12.1	12.1	12.1	12.1
>OR >1000	18.4	23.9	24.6	24.7	24.7	24.7	24.7	24.7
>OR >600	23.9	31.8	32.8	32.9	32.9	33.0	33.0	33.0
>OR >300	24.8	33.3	34.5	34.5	34.5	34.6	34.6	34.6
>OR >150	24.8	33.6	34.7	34.8	34.8	34.8	34.8	34.8
>OR >0	24.8	33.6	34.8	34.9	35.0	35.1	35.1	35.1
TOTAL	594	806	835	837	838	840	840	840

TOTAL NUMBER OF OBS: 2396

PCT FREQ NH <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
12.3	17.1	15.2	11.8	7.7	6.2	6.8	6.4	16.3	.2	2562

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1856-1973

DECEMBER

AREA 0022 DURBAN
28.65 33.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1		
	NO PCP	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*		
	TOT %	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.1		
1/2<1	PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3		
	NO PCP	.1	.2	*	*	.0	.1	*	.0	.0	.0	.4		
	TOT %	.1	.2	*	.2	.1	.1	*	.0	.0	.0	.7		
1<2	PCP	.0	*	.0	.1	.1	*	.0	.0	.0	*	.3		
	NO PCP	.1	.2	*	*	.1	.1	*	*	.0	.0	.6		
	TOT %	.1	.2	*	.1	.1	.1	*	*	.0	*	.9		
2<5	PCP	*	.1	.1	.1	.3	.0	.0	*	.0	.0	.6		
	NO PCP	.1	.1	*	.1	.4	.1	.1	.0	.0	.0	.9		
	TOT %	.1	.2	*	.1	.2	.6	.1	.1	*	.0	1.5		
5<10	PCP	.2	.4	.3	.5	1.1	.4	.1	*	.0	.0	2.9		
	NO PCP	2.3	6.3	2.7	2.5	4.0	2.3	.4	.2	.0	.2	20.9		
	TOT %	2.5	6.7	3.0	3.0	5.1	2.7	.5	.2	.0	.2	23.8		
10+	PCP	.1	.2	.1	.2	.2	.1	*	.1	.0	.0	1.1		
	NO PCP	8.8	22.3	11.1	10.7	11.6	4.3	.7	1.4	.0	1.2	72.1		
	TOT %	8.9	22.6	11.2	11.0	11.7	4.4	.7	1.5	.0	1.2	73.2		
TOT OBS														3278
TOT PCT														11.7 29.9 14.3 14.5 17.8 7.4 1.3 1.7 .0 1.3 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.0	*	.0	*	.0	.0	.0	.1	
1/2<1	0-3	*	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	4-10	*	*	*	*	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	*	*	.1	*	*	.0	.0	.0	.0	.2	
	22+	.0	*	*	*	*	*	.0	.0	.0	.0	.2	
	TOT %	*	.2	.1	.2	.1	.1	*	.0	.0	.0	.6	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	*	.1	*	*	.1	*	*	.0	.0	.0	.3	
	11-21	.1	.1	.0	*	*	.1	*	*	.0	.0	.3	
	22+	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.1	
	TOT %	.1	.2	*	.1	.1	.1	*	*	.0	*	.8	
2<5	0-3	*	*	*	.0	.0	*	*	.0	.0	*	.1	
	4-10	*	.1	.1	.1	.2	*	*	*	.0	.0	.6	
	11-21	.1	.2	.1	.1	.3	.1	.0	*	.0	.0	.7	
	22+	*	*	*	.1	.2	.2	*	.0	.0	.0	.5	
	TOT %	.1	.3	.2	.2	.6	.3	.1	*	.0	*	2.0	
5<10	0-3	.1	.2	.2	.1	.1	*	.1	*	.0	.2	1.1	
	4-10	.6	1.5	1.5	1.4	1.1	.6	.3	.1	.0	.0	7.2	
	11-21	1.1	2.9	.9	1.1	2.3	1.3	.1	*	.0	.0	9.9	
	22+	.3	1.1	.1	.2	1.5	1.0	.1	*	.0	.0	4.4	
	TOT %	2.2	5.8	2.7	2.8	5.0	2.9	.6	.2	.0	.2	22.5	
10+	0-3	.3	.7	.6	.5	.5	.2	.1	.1	.0	1.3	4.4	
	4-10	3.2	9.0	7.0	5.8	4.0	1.8	.5	.9	.0	.0	22.3	
	11-21	3.8	10.3	3.5	4.0	5.7	2.0	.3	.3	.0	.0	29.9	
	22+	1.2	1.9	.3	.4	2.3	1.2	*	*	.0	.0	7.4	
	TOT %	8.5	21.9	11.4	10.8	12.5	5.2	.9	1.4	.0	1.3	73.9	
TOT OBS													4169
TOT PCT													11.0 28.4 14.5 14.1 18.5 8.6 1.7 1.7 .0 1.6 100.0

DECEMBER

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1858-1973

TABLE 10

AREA 0022 DURBAN
28.65 33.7EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.2	.2	1.5	9.7	15.1	7.8	2.9	.9	.2	.7	39.1	60.9	588
06009	.3	.2	1.6	9.2	11.3	7.9	3.4	.6	.3	.5	35.2	64.8	644
12015	.1	.1	1.8	6.0	9.7	6.1	1.9	.6	.1	.4	27.0	73.0	671
18021	.2	.5	1.4	7.2	13.2	7.0	3.3	1.4	.3	.7	35.1	64.9	584
TOT	5	6	39	198	304	179	71	21	6	14	843	1644	2487
PCT	.2	.2	1.6	8.0	12.2	7.2	2.9	.8	.2	.6	33.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.4	.6	1.5	20.3	77.2	895
06009	.2	.8	1.0	2.0	23.5	72.5	1225
12015	.1	.5	.9	1.7	19.9	76.8	975
18021	.1	.7	.9	2.5	26.6	69.3	1160
TOT	4	27	36	84	972	3132	4255
PCT	.1	.6	.8	2.0	22.8	73.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	1.9	12.6	27.6	59.9	573
06009	.3	2.4	12.8	23.8	63.4	618
12015	.2	2.1	9.5	18.6	71.9	652
18021	.2	2.2	10.5	26.4	63.1	553
TOT	5	52	271	572	1553	2396
PCT	.2	2.2	11.3	23.9	64.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.0	.0	.0	2	.1
85/89	.0	.0	.0	.0	.3	.2	.1	.1	20	.8
80/84	.0	.0	.0	.4	1.6	2.6	2.5	.6	195	7.6
75/79	.0	.0	.2	1.0	6.7	15.3	16.5	8.0	1218	47.7
70/74	.0	.0	.1	2.0	9.8	10.9	11.1	6.0	1018	39.9
65/69	.0	.0	.0	.4	.8	1.0	.8	.5	90	3.5
60/64	.0	.0	.0	.0	.1	.0	.1	.0	8	.3
TOTAL	0	1	7	97	497	767	795	387	2551	100.0
PCT	.0	.0	.3	3.8	19.5	30.1	31.2	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.3	.2	.0	.0	.0	.0	.0	.0	.0
1.7	3.1	1.0	.7	.5	.2	.0	.2	.0	.2
7.6	16.7	6.7	5.5	6.0	3.1	.5	1.0	.0	.6
2.4	8.6	5.5	7.4	10.6	3.5	.4	.6	.0	.8
.1	.4	.4	.8	1.2	.6	.1	.0	.0	.0
.0	.0	.0	.1	.1	.1	.0	.0	.0	.0
12.0	29.1	13.8	14.5	18.4	7.6	1.1	1.9	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	80	77	73	68	65	63	73.3	1050
06009	90	83	81	75	69	66	62	75.1	1648
12015	90	86	83	76	70	67	63	76.4	1115
18021	83	80	79	74	69	66	62	74.0	1461
TOT	90	83	80	75	69	66	62	74.7	5274

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00003	.0	2.1	16.2	27.4	34.3	19.9	80	623
06009	.0	4.7	21.0	29.2	30.2	14.9	78	685
12015	.0	7.1	22.9	33.7	27.0	9.2	75	673
18021	.0	2.4	16.7	29.6	34.3	17.0	79	635
TOT	0	108	505	786	821	396	78	2616

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1856-1973

DECEMBER

AREA 0022 DURBAN
28.05 93.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
9/10	.0	.0	.0	.0	.1	.2	.1	.0	10	.0	.3
7/8	.0	.0	.0	*	.2	.3	.3	.1	27	.0	.9
6	.0	.0	.0	.0	.2	.2	.1	.0	14	.0	.4
5	.0	.0	*	.6	.7	.4	.0	.0	55	.1	1.7
4	.0	*	.1	.6	1.2	1.0	.0	.0	94	.0	3.0
3	.0	.0	.1	.7	2.1	.5	*	.0	107	.1	3.3
2	.0	.0	.4	2.6	4.5	.7	.1	.0	259	.1	8.2
1	.0	.0	.7	5.6	5.6	.5	*	.0	393	.1	12.4
0	.0	.0	2.1	9.9	6.2	.4	*	.0	582	.1	18.4
-1	.0	*	1.8	7.9	3.2	.1	.0	.0	410	*	13.0
-2	.0	.2	3.4	7.1	1.9	.1	.0	.0	397	.1	12.5
-3	*	.1	2.9	4.4	.7	*	.0	.0	256	*	8.1
-4	.0	.3	2.7	2.9	.7	.0	.0	.0	210	.0	6.7
-5	*	.3	1.9	2.1	.2	.0	.0	.0	142	.0	4.5
-6	.0	.2	1.2	.7	*	.0	.0	.0	67	*	2.1
-7/-8	*	.3	1.1	.6	.1	.0	.0	.0	71	.0	2.3
-9/-10	.1	.3	.4	.2	.0	.0	.0	.0	31	.0	1.0
-11/-13	.2	.2	*	.1	*	.0	.0	.0	17	.0	.5
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	10		598		868		21		3146		3124
PCT	.3	2.1	19.0	45.9	27.6	4.4	.7	.1	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.1	.0	.0	.0	.9	.2	1.4	*	.0	.0	.0	1.6
1-2	.1	2.0	.6	.0	.0	.0	2.7	.4	6.1	2.4	.0	.0	.0	8.8
3-4	.0	1.4	2.2	.1	.0	.0	3.7	.0	2.6	6.3	.4	.0	.0	9.2
5-6	.0	*	1.9	.5	*	.0	2.5	.0	.8	3.8	.8	.1	.0	5.5
7	.1	.1	.7	.6	.0	.0	1.4	.0	.1	1.4	.9	.1	.0	2.5
8-9	.0	.0	.5	.5	.0	.0	.9	.0	.1	.4	.6	.0	.0	1.1
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	*	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.2	6.0	1.9	.1	.0	12.4	.6	11.0	14.4	2.9	.2	.0	29.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2	.3	.9	.0	.0	.0	.0	1.2
1-2	.2	5.1	.9	.0	.0	.0	6.2	.2	3.7	.9	.0	.0	.0	4.8
3-4	.0	2.3	2.6	.1	.0	.0	5.0	.0	2.0	2.2	.1	.0	.0	4.3
5-6	.0	.5	1.1	.2	.0	.0	1.8	.0	.4	1.6	.4	.0	.0	2.4
7	.0	.0	.5	.0	.0	.0	.5	.0	.1	.8	.2	.0	.0	1.0
8-9	.0	.1	.1	.1	.0	.0	.2	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	8.9	5.2	.3	.1	.0	14.9	.5	7.1	5.8	1.1	*	.0	14.5

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

AREA 0022 DURBAN
28.65 33.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.4	.1	.0	.0	.0	.7	.0	.1	.1	.0	.0	.0	.1	
1-2	.1	2.2	.7	.0	.0	.0	3.0	.1	.8	.3	.0	.0	.0	1.2	
3-4	.1	1.9	2.5	.2	.0	.0	4.7	.0	.7	1.1	.0	.0	.0	1.8	
5-6	.0	.5	2.7	.6	.0	.0	3.8	.0	.3	.5	.4	.0	.0	1.2	
7	.0	.0	1.4	.7	.0	.1	2.2	.0	.0	.4	.6	.1	.0	1.1	
8-9	.0	.0	.3	.8	.0	.0	1.2	.0	.0	.0	.3	.1	.0	.4	
10-11	.0	.0	.2	1.0	.0	.0	1.2	.0	.0	.0	.1	.1	.0	.3	
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.0	.1	.1	
13-16	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.9	8.0	3.8	.6	.1	17.8	.1	1.9	2.5	1.6	.4	.1	6.5	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.1	.0	.0	.0	.0	.1	.2	.3	.0	.0	.0	.0	.5		
1-2	.1	.3	.1	.0	.0	.0	.5	.0	.5	.1	.0	.0	.0	.6		
3-4	.0	.1	.1	.1	.0	.0	.3	.0	.3	.2	.0	.0	.0	.4		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1		
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1		
12	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.1	.6	.3	.1	.0	.0	1.1	.2	1.2	.3	.1	.0	.0	1.8	98.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	4.7	.2	.0	.0	.0	9.0	
1-2	1.6	20.5	5.9	.0	.0	.0	28.1	
3-4	.1	11.0	16.9	.9	.0	.0	28.9	
5-6	.1	2.6	11.4	2.8	.2	.0	17.1	
7	.1	.2	5.2	3.1	.2	.1	8.7	
8-9	.0	.2	1.5	2.4	.1	.0	4.2	
10-11	.0	.0	.5	1.7	.1	.0	2.3	
12	.0	.1	.1	.3	.2	.1	.6	
13-16	.0	.0	.1	.2	.2	.0	.5	
17-19	.0	.0	.0	.2	.2	.0	.3	
20-22	.0	.0	.0	.1	.2	.0	.2	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	39.3	41.7	11.6	1.3	.1	100.0	1728

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	6.1	9.8	6.4	3.6	1.6	.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	620	4
4-7	.0	.8	4.3	8.2	6.9	3.8	2.2	.6	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	588	6
5-9	.0	.2	1.2	3.8	5.0	3.1	2.5	1.0	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	385	8
10-11	.0	.3	.6	1.4	1.8	1.1	1.1	.3	.6	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	164	8
12-13	.0	.0	.8	.4	.4	.6	.3	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	8
>13	.0	.0	.0	.3	.4	.4	.4	.1	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	43	10
INDEX	1.5	1.1	2.6	2.5	1.4	.7	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	220	4
TOTAL	45	178	404	481	409	237	162	54	83	24	6	4	3	0	0	0	0	0	0	2090	6
PCT	2.2	8.5	19.3	23.0	19.6	11.3	7.8	2.6	4.0	1.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	1.5	1.1	.5	.0	.0	.0	*	3.1	1.0	3.0	.8	*	1.7	.1 90.8
NE	1.3	.9	.5	.0	.0	.0	*	2.7	1.3	2.5	.8	.0	1.3	.1 91.7
E	1.8	1.9	1.2	.0	.0	.0	.0	4.8	2.2	2.0	.6	.0	.6	.0 90.0
SE	3.3	3.3	1.2	.0	.0	.0	*	7.7	3.4	1.9	.4	.0	.4	* 86.6
S	3.9	4.4	1.5	.0	.0	.0	.1	9.7	4.3	2.3	.5	*	.8	.1 82.8
SW	5.4	5.0	1.7	.0	.0	.0	*	11.9	4.6	3.1	.9	.0	1.2	.1 78.9
W	5.4	3.8	1.5	.0	.0	.0	.1	10.8	2.8	3.9	1.6	.0	1.8	.0 80.3
NW	3.4	2.0	.8	.0	.0	.0	.0	6.2	2.1	4.1	1.3	.0	1.8	* 86.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.8	1.2	.8	.0	.0	.0	.0	2.6	1.7	3.5	1.3	.2	1.4	.0 89.3
TOT PCT	2.7	2.5	1.0	.0	.0	.0	*	6.1	2.6	2.5	.7	*	1.1	.1 87.4
TOT OBS: 39763														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	3.1	2.7	1.3	.0	.0	.0	*	7.0	3.1	5.2	.6	.0	.6	.1 84.1
06009	2.8	2.7	.9	.0	.0	.0	*	6.3	2.6	.5	1.0	*	1.5	.1 88.3
12015	1.9	2.2	.9	.0	.0	.0	*	5.0	2.3	.3	.7	*	1.4	.1 90.4
18021	3.0	2.5	.9	.0	.0	.0	*	6.3	2.2	4.5	.7	*	.8	.1 86.3
TOT PCT	2.7	2.5	1.0	.0	.0	.0	*	6.1	2.5	2.5	.7	*	1.1	.1 87.4
TOT OBS: 41101														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.5	4.7	6.0	2.0	.2	*		13.5	13.9	14.0	15.8	18.2	13.4	14.1	10.0	9.9	12.2
NE	.8	8.8	10.4	2.7	.3	*		22.9	13.2	24.8	20.8	19.3	20.6	24.1	25.1	25.7	24.1
E	.8	6.8	4.3	.5	*	*		12.4	10.4	12.7	10.3	10.2	11.7	12.2	14.7	14.5	13.2
SE	.6	5.8	4.7	1.1	.1	*		12.4	12.1	13.1	10.3	11.3	11.5	13.5	12.2	14.1	12.2
S	.7	5.4	7.3	3.5	.8	.1		17.7	15.6	16.8	16.8	16.8	17.6	18.3	18.9	19.0	17.1
SW	.6	3.8	5.0	2.5	.7	.1		12.7	16.2	10.6	14.5	13.5	15.3	11.2	13.3	10.7	12.8
W	.4	1.6	.8	.3	.1	*		3.1	11.0	2.4	4.4	4.3	3.9	2.3	2.5	2.1	3.5
NW	.3	1.8	1.1	.2	*	*		3.4	10.2	3.0	4.4	4.9	4.0	3.0	2.4	2.1	2.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	2.7	2.7	1.7	1.9	1.4	1.0	1.9	2.2
TOT OBS							69085		13.3	7296	5844	12175	10200	7724	6451	12958	6437
TOT PCT	6.6	38.6	39.6	12.8	2.2	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.2	6.5	3.9	.8	.1		13.5	13.9	14.8	16.0	12.2	10.6	
NE	3.9	12.0	6.1	1.0	*		22.9	13.2	23.0	19.9	24.6	25.2	
E	3.4	7.2	1.6	.2	*		12.4	10.4	11.7	10.9	13.4	14.1	
SE	2.7	6.8	2.4	.4	*		12.4	12.1	11.8	11.4	12.9	13.5	
S	2.6	7.6	5.5	1.8	.3		17.7	15.6	16.8	17.1	18.6	18.4	
SW	2.0	5.1	3.8	1.5	.3		12.7	16.2	12.3	14.3	12.1	11.4	
W	1.1	1.4	.5	.1	*		3.1	11.0	3.3	4.1	2.4	2.5	
NW	1.1	1.6	.6	.1	*		3.4	10.2	3.7	4.4	2.7	2.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.9						1.9	.0	2.7	1.8	1.2	2.0	
TOT OBS						69085		13.3	13140	22375	14175	19395	
TOT PCT	20.9	48.1	24.4	5.8	.7		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1989-1973
(OVER-ALL) 1955-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.7	4.5	39.9	38.6	11.8	2.0	.2	13.0	100.0	13140
0600	1.8	5.7	39.3	38.4	12.2	2.3	.3	13.1	100.0	22375
1200	1.2	3.8	36.1	42.6	13.9	2.2	.2	13.9	100.0	14175
1800	2.0	4.4	38.5	39.4	13.2	2.3	.2	13.4	100.0	19395
TOT								13.3		69085
PCT	1.9	4.7	38.6	39.6	12.8	2.2	.2	13.3	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.4	2.8	3.2	1.4		3.2
NE	11.0	4.6	5.1	2.4		3.1
E	4.0	2.5	3.5	1.8		3.9
SE	3.5	3.2	3.8	2.7		4.5
S	4.1	3.7	5.5	4.5		4.9
SW	2.7	1.9	3.3	2.6		5.0
W	1.0	.5	.5	.4		4.3
NW	1.6	.7	.5	.4		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.0	.3	.3	.2		3.1
TOT OBS					27320	3.9
TOT PCT	37.4	20.3	25.8	16.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	500	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	*	*	.1	.6	1.2	.6	.2	.1	*	.1	11.7	
NE	.1	*	.1	1.1	2.1	1.1	.4	.1	.1	.1	18.7	
E	*	*	.2	.8	1.5	.8	.3	.1	*	.1	9.0	
SE	*	*	.2	1.2	2.0	.9	.3	.1	*	*	8.3	
S	.1	.1	.3	2.0	3.1	1.5	.5	.1	*	.1	10.0	
SW	.1	*	.2	1.3	1.9	.8	.3	.1	*	.1	5.7	
W	*	*	*	.2	.3	.2	.1	*	*	*	1.6	
NW	.0	*	*	.2	.3	.1	*	*	*	*	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	*	.1	.1	.1	*	*	*	*	1.4	
TOT OBS												27320
TOT PCT	.3	.2	1.2	7.5	12.4	5.9	2.2	.6	.3	.5	69.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	2.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5
= OR >2000	7.6	9.2	9.4	9.5	9.5	9.5	9.5	9.5
= OR >1000	16.8	21.1	21.7	21.8	21.8	21.8	21.8	21.8
= OR >600	21.4	28.1	29.0	29.2	29.2	29.2	29.2	29.2
= OR >300	22.0	29.1	30.2	30.3	30.4	30.4	30.4	30.4
= OR >150	22.0	29.2	30.4	30.6	30.6	30.6	30.6	30.6
= OR >0	22.1	29.4	30.6	30.8	30.9	30.9	30.9	30.9

TOTAL NUMBER OF OBS: 27910

PCT FREQ NH <5/8: 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.6	16.4	15.1	12.4	9.0	6.3	6.9	6.0	12.3	.2	29584

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1888-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL Obs
<1/2	PCP	*	*	*	*	*	*	.0	.0	.0	.0	.1	
	NO PCP	*	*	*	.0	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	.0	.1	
	NO PCP	.1	.1	*	*	*	*	*	*	.0	*	.3	
	TOT %	.1	.1	*	.1	.1	.1	*	*	.0	*	.5	
1<2	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	NO PCP	.1	.2	.1	*	.1	.1	*	*	.0	*	.6	
	TOT %	.1	.2	.1	.1	.1	.1	*	*	.0	*	.7	
2<5	PCP	*	.1	.1	.1	.2	.2	*	*	.0	*	.7	
	NO PCP	.1	.1	.1	.1	.2	.2	*	*	.0	*	.8	
	TOT %	.1	.2	.1	.2	.4	.3	.1	*	.0	*	1.4	
5<10	PCP	.3	.4	.3	.6	1.0	.8	.2	.1	.0	*	3.7	
	NO PCP	2.8	5.0	2.2	2.4	3.8	3.5	.7	.6	.0	.4	21.6	
	TOT %	3.1	5.4	2.5	3.0	4.9	4.3	.9	.7	.0	.5	25.3	
10+	PCP	.1	.2	.2	.2	.3	.2	.1	*	.0	*	1.4	
	NO PCP	10.7	17.8	9.4	9.4	11.6	6.5	1.7	2.3	.0	1.2	70.6	
	TOT %	10.8	18.0	9.6	9.6	11.9	6.8	1.7	2.3	.0	1.2	71.9	
TOT OBS													
TOT PCT													
		14.1	23.9	12.3	13.0	17.5	11.6	2.7	3.2	.0	1.7	100.0	39730

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	.0	.0	.0	.0	*	.0	*	*	
	4-10	*	*	*	*	.0	.0	.0	.0	.0	*	*	
	11-21	*	*	*	*	*	*	*	.0	.0	*	*	
	22+	*	*	*	*	*	*	.0	.0	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.1	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	*	*	*	*	*	*	*	*	.0	*	.2	
	22+	*	*	*	*	*	*	.0	*	.0	*	.1	
	TOT %	.1	.1	*	.1	.1	.1	*	*	.0	*	.4	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	.1	*	*	*	*	*	*	.0	*	.2	
	11-21	*	.1	*	*	*	.1	*	*	.0	*	.3	
	22+	*	*	*	*	.1	*	*	*	.0	*	.2	
	TOT %	.1	.1	.1	.1	.1	.1	*	*	.0	*	.7	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	*	*	.0	*	.5	
	11-21	.1	.1	.1	.1	.2	.2	*	*	.0	*	.7	
	22+	*	.1	*	.1	.3	.2	*	*	.0	*	.6	
	TOT %	.2	.3	.2	.2	.5	.5	.1	*	.0	*	1.9	
5<10	0-3	.1	.2	.1	.1	.2	.2	.1	.1	.0	.4	1.5	
	4-10	.9	1.7	1.0	1.0	1.0	1.1	.4	.3	.0	7.5		
	11-21	1.2	2.1	.9	1.1	1.9	1.6	.3	.2	.0	9.4		
	22+	.5	.8	.2	.4	1.3	1.1	.1	.1	.0	4.7		
	TOT %	2.7	4.9	2.2	2.7	4.6	4.1	.8	.7	.0	.4	23.1	
10+	0-3	.4	.6	.5	.4	.4	.3	.2	.2	.0	1.3	4.3	
	4-10	3.8	7.1	5.7	4.8	4.0	2.4	1.1	1.4	.0	30.3		
	11-21	5.1	8.5	3.4	3.7	5.3	3.1	.5	.7	.0	30.3		
	22+	1.5	2.1	.3	.7	2.4	1.6	.1	.1	.0	8.8		
	TOT %	10.8	18.3	9.9	9.6	12.1	7.3	1.9	2.4	.0	1.3	73.7	
TOT OBS													
TOT PCT													
		13.9	23.7	12.4	12.6	17.5	12.1	2.9	3.1	.0	1.8	100.0	50294

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH <5/8 OBS	TOTAL OBS
00003	.5	.2	1.1	7.8	12.9	5.8	2.2	.5	.4	.7	32.1	67.9	6904
06009	.2	.2	1.4	8.1	13.6	6.4	2.3	.6	.3	.5	33.4	66.6	7266
12015	.1	.2	1.2	6.1	10.8	5.2	1.8	.6	.3	.4	26.7	73.3	7830
18021	.3	.2	.9	6.8	10.7	5.5	2.1	.6	.3	.5	28.0	72.0	6885
TOT PCT	.3	.2	1.2	7.2	12.0	5.7	2.1	.6	.3	.5	30.0	70.0	28885 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	.3	.5	1.7	21.3	76.2	10777
06009	.1	.6	1.0	2.0	25.2	71.2	14731
12015	.1	.5	.8	2.0	20.2	76.5	11803
18021	.1	.4	.7	2.0	26.9	69.9	14327
TOT PCT	.1	.5	.7	1.9	23.7	73.1	51638 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOURL (GMT)	<150 <50yd	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	1.9	10.9	22.5	66.6	6687
06009	.2	1.9	11.4	23.4	65.2	7016
12015	.1	1.6	9.0	18.9	72.1	7586
18021	.3	1.6	9.4	19.8	70.8	6621
TOT PCT	.3	1.7	10.1	21.1	68.8	27910 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	*	*	*	*	.0	.1	
85/89	.0	.0	*	*	.2	.2	.1	*	.6	
80/84	.0	*	*	.2	1.1	2.6	3.2	.9	7.9	
75/79	.0	*	.1	.8	3.8	9.4	9.5	4.1	27.7	
70/74	.0	*	.2	1.8	7.4	11.9	11.4	5.5	38.1	
65/69	.0	*	.2	1.8	4.6	6.2	5.6	2.7	21.2	
60/64	.0	.0	*	.4	.9	1.1	.9	.7	4.1	
55/59	.0	.0	.0	*	*	.1	.1	.1	.3	
50/54	.0	.0	.0	.0	*	*	*	*	*	
TOTAL PCT	.0	*	.5	5.0	18.0	31.5	30.8	14.0	30073	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	*	*	*	*	.0	.0	.0	.0
.1	.2	.1	*	*	*	*	*	.0	*
1.4	2.6	1.2	1.0	.8	.4	.1	.2	.0	.1
4.0	7.8	4.0	4.0	4.0	2.1	.5	.8	.0	.4
6.3	9.1	4.3	4.6	6.6	4.1	1.0	1.3	.0	.8
2.4	3.9	2.2	2.7	4.8	3.5	.7	.6	.0	.5
.2	.3	.2	.5	1.2	1.2	.2	.1	.0	.2
*	*	*	*	*	.1	*	*	.0	*
*	.0	.0	.0	*	*	*	*	.0	.0
14.3	23.9	12.1	12.8	17.5	11.5	2.6	3.1	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	78	76	72	66	63	54	71.0	13352
06009	91	81	78	73	67	63	54	72.4	22320
12015	93	83	80	74	68	65	53	73.7	14196
18021	89	78	77	72	66	63	53	71.6	19528
TOT	93	81	78	73	66	63	53	72.2	69396

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.9	14.6	28.3	34.4	18.8	79	7444
06009	.0	6.1	17.8	31.4	30.4	14.4	77	7940
12015	.0	8.6	29.6	34.4	26.1	8.3	75	7815
18021	.0	3.6	16.2	30.6	33.2	16.4	79	7886
TOT	0	1736	5530	9694	9632	4493	78	31085

PERIOD: (PRIMARY) 1968-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	4	.0	*
11/13	.0	.0	.0	.0	*	*	*	.1	*	*	*	50	*	.1
9/10	.0	.0	.0	*	*	*	.1	.1	*	*	.0	107	*	.3
7/8	.0	.0	.0	*	*	.1	.2	.2	.1	*	.0	246	*	.7
6	.0	.0	*	*	.1	.1	.1	.1	.1	*	.0	185	.0	.5
5	.0	.0	*	*	.1	.3	.4	.2	.1	*	.0	445	*	1.2
4	.0	.0	*	.1	.3	.6	.6	.4	.1	*	.0	820	*	2.2
3	.0	.0	*	.1	.5	1.0	.7	.4	.1	*	.0	1055	*	2.8
2	.0	.0	*	.2	1.4	1.9	1.7	.7	*	.0	.0	2264	.1	5.9
1	.0	.0	*	.5	2.6	2.9	2.5	.7	*	.0	.0	3538	.1	9.3
0	.0	*	.1	1.2	4.7	4.6	3.8	.9	*	.0	.0	5759	.1	15.2
-1	.0	*	.1	1.6	4.6	4.1	3.2	.4	*	.0	.0	5258	.1	13.9
-2	.0	*	.2	2.3	4.5	4.1	2.3	.3	*	.0	.0	5160	.1	13.7
-3	.0	*	.3	2.1	3.4	2.7	1.2	.1	*	.0	.0	3671	.1	9.7
-4	*	*	.5	2.3	2.8	2.1	.7	*	.0	.0	.0	3173	*	8.3
-5	*	*	.6	1.9	1.9	1.3	.3	*	.0	.0	.0	2350	*	6.2
-6	*	*	.5	1.2	1.0	.5	.1	.0	.0	.0	.0	1264	*	3.3
-7/-8	.0	.1	.9	1.2	1.0	.5	.1	*	.0	.0	.0	1460	*	3.8
-9/-10	*	.1	.5	.5	.3	.1	*	.0	.0	.0	.0	571	*	1.5
-11/-13	*	.1	.2	.2	.1	*	*	.0	.0	.0	.0	224	*	.6
-14/-16	*	*	*	*	*	.0	.0	.0	.0	.0	.0	43	.0	.1
-17/-19	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	*
TOTAL												37655		
PCT	.1	.5	4.0	15.5	29.5	27.0	18.1	4.7	.6	.1	*	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.5	*	.0	.0	.0	.7		.2	.8	.1	.0	.0	.0	.0	1.0
1-2	.2	2.6	.9	.0	.0	.0	3.7		.2	4.7	1.6	.0	.0	.0	.0	6.5
3-4	*	1.4	2.8	.3	.0	.0	4.5		*	2.5	4.5	.4	.0	.0	.0	7.4
5-6	.0	.2	2.2	.5	*	.0	2.9		*	.5	3.3	.8	*	.0	.0	4.6
7	*	.1	1.0	.6	*	.0	1.6		*	.1	1.3	.8	*	.0	.0	2.3
8-9	.0	*	.3	*	*	.0	.7		*	.1	.4	.6	.1	.0	.0	1.1
10-11	.0	*	.1	.3	.1	*	.5		.0	*	.1	.4	.1	.0	.0	.5
12	.0	.0	*	.1	*	.0	.1		.0	.0	*	*	.1	*	.0	.2
13-16	.0	.0	*	.1	.1	.0	.2		.0	.0	*	.1	.1	.0	.0	.1
17-19	.0	*	.0	*	*	*	*		.0	.0	*	*	*	.0	.0	*
20-22	.0	.0	.0	.0	*	.0	*		.0	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	*	.0	.0	*		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.8	7.3	2.3	.2	*	15.0		.5	8.5	11.4	3.1	.3	.0	.0	23.8

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.6	*	.0	.0	.0	.9		.2	.5	*	.0	.0	.0	.0	.7
1-2	.2	3.9	.8	.0	.0	.0	5.0		.1	3.0	.6	.0	.0	.0	.0	3.8
3-4	*	1.8	2.0	.1	.0	.0	3.9		*	1.7	2.1	.1	.0	.0	.0	3.9
5-6	.0	.4	1.3	.2	.0	.0	1.9		.0	.3	1.7	.3	*	.0	.0	2.3
7	.0	.1	.6	.1	.0	.0	.7		.0	.1	.7	.3	*	.0	.0	1.2
8-9	.0	*	.2	.1	.0	.0	.3		.0	*	.3	.2	*	.0	.0	.6
10-11	.0	.0	*	.1	.0	*	.1		.0	*	.1	.2	*	.0	.0	.3
12	*	.0	.0	*	*	.0	*		*	.0	*	.1	*	.0	.0	.1
13-16	.0	*	.0	*	.0	.0	*		.0	.0	*	.1	*	.0	.0	.2
17-19	.0	.0	.0	*	.0	.0	*		.0	.0	*	*	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	*	*	*	*	*
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	*	*	*	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	*	.0	.0	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.9	4.9	.6	*	*	12.8		.3	5.7	5.5	1.4	.1	*	.0	13.1

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.2	.4	.8	.0	.0	.0	.6	.1	.2	.5	.0	.0	.0	.4	
1-2	.2	2.5	.8	.0	.0	.0	3.5	.1	1.4	.5	.0	.0	.0	2.0	
3-4	.0	.1	2.6	.3	.0	.0	4.4	.0	.8	1.6	.1	.0	.0	2.6	
5-6	.0	.3	2.3	.8	.1	.0	3.4	.0	.3	1.4	.5	.0	.0	2.1	
7	.0	.1	1.2	.9	.1	.0	2.4	.0	.0	.8	.6	.1	.0	1.5	
8-9	.0	.0	.5	.8	.1	.0	1.4	.0	.0	.2	.4	.1	.0	.7	
10-11	.0	.0	.2	.6	.1	.0	.8	.0	.0	.1	.3	.1	.0	.4	
12	.0	.0	.0	.2	.1	.0	.4	.0	.0	.0	.1	.1	.0	.2	
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.8	7.7	4.0	.8	.0	17.7	.2	2.8	4.7	2.2	.5	.0	10.5	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.1	.2	.0	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	.3	
1-2	.1	.8	.1	.0	.0	.0	1.0	.1	.9	.2	.0	.0	.0	1.1	
3-4	.0	.3	.3	.0	.0	.0	.6	.0	.4	.5	.0	.0	.0	.8	
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.1	.3	.1	.0	.0	.4	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.4	.7	.1	.0	.0	2.4	.1	1.6	1.1	.2	.0	.0	3.0	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.8	3.6	.2	.0	.0	.0	7.6	
1-2	1.5	19.8	5.5	.0	.0	.0	26.8	
3-4	.1	10.1	16.2	1.3	.0	.0	27.6	
5-6	.0	2.2	12.4	3.0	.2	.0	17.8	
7	.0	.4	5.7	3.5	.3	.0	9.9	
8-9	.0	.2	1.9	2.4	.3	.0	4.7	
10-11	.0	.0	.6	1.9	.3	.0	2.8	
12	.0	.0	.1	.6	.2	.0	1.0	
13-16	.0	.0	.1	.8	.4	.0	1.3	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.0	.1	.0	.2	
23-25	.0	.0	.0	.1	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.4	36.3	42.6	13.7	2.0	.1	100.0	19419

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	5.4	9.1	7.0	3.8	1.8	1.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7039	4
6-7	.0	.6	4.5	8.0	6.2	3.9	2.4	.9	1.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	6663	7
8-9	.0	.3	1.4	3.7	4.6	3.0	2.4	1.1	1.5	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	4483	8
10-11	.0	.3	.4	1.0	1.4	1.3	1.1	.7	.8	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	1840	9
12-13	.0	.0	.6	.5	.6	.5	.6	.3	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	943	9
13	.0	.0	.0	.2	.3	.2	.3	.1	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	410	11
INDET	1.2	.7	1.6	2.3	1.9	1.1	.8	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2503	6
TOTAL																				23881	7
PCT	2.1	7.2	17.6	22.7	18.9	11.9	8.7	3.8	4.7	1.3	.7	.3	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

TABLE 20

AREA 0022 DURBAN
28.65 33.6E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
94+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
87/88	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	15	*
85/86	.5	.7	.3	.1	*	.0	.0	.0	.0	.0	*	.2	88	.1
83/84	1.9	3.7	1.8	.4	.1	.0	.0	.0	.0	.0	.1	.4	395	.6
81/82	10.9	17.0	13.5	3.2	.7	*	*	*	*	.1	.5	2.7	2341	3.6
79/80	24.3	28.9	27.0	12.1	2.6	.4	.1	.1	.1	.2	2.3	9.9	5283	8.1
77/78	29.7	26.9	27.8	28.1	9.5	1.7	.5	.4	.5	1.8	7.1	21.1	7815	12.0
75/76	20.1	14.7	19.0	29.8	25.6	7.6	2.5	2.3	2.5	7.6	19.1	28.8	9457	14.5
73/74	9.1	4.7	7.2	17.1	34.0	26.0	11.8	9.4	12.5	21.1	30.5	23.3	11465	17.6
71/72	2.2	2.0	1.8	6.2	18.0	31.8	29.6	25.6	28.6	29.3	23.8	9.1	11909	18.3
69/70	.7	.8	.6	2.1	6.6	21.4	32.2	33.1	32.2	22.9	12.1	3.4	9719	14.9
67/68	.2	.2	.5	.6	2.0	7.8	17.1	20.3	17.5	12.1	3.6	.7	4795	7.4
65/66	.2	.1	.3	.1	.7	2.2	4.2	6.3	4.7	3.8	.6	.2	1360	2.1
63/64	*	*	.1	.1	.2	.7	1.4	1.6	1.2	.8	.2	.1	369	.6
61/62	.0	.0	*	.0	.1	.2	.3	.4	.2	.2	*	.0	82	.1
59/60	.0	.0	.0	.0	.0	.1	.1	.2	.2	.1	*	*	41	.1
57/58	.0	.0	.0	.0	.0	*	.1	.1	.0	*	.0	.0	14	*
55/56	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	3	*
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	5043	4339	4952	5233	5736	5898	6124	6045	5329	5809	5605	5039	65152	100.0
MEAN	77.5	78.3	77.7	75.9	73.7	71.5	70.1	69.7	70.1	71.1	73.0	75.3	73.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MT	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL DPS
JAN	1012	1012	1013	1013	1011	1011	1012	1013	1012	3202
FEB	1012	1013	1013	1013	1012	1012	1012	1014	1013	2744
MAR	1015	1014	1016	1015	1015	1014	1015	1015	1015	3238
APR	1016	1018	1017	1018	1016	1017	1017	1017	1017	3256
MAY	1019	1019	1019	1019	1018	1018	1019	1019	1019	3476
JUN	1020	1022	1022	1023	1020	1021	1021	1021	1021	3409
JUL	1023	1024	1023	1023	1022	1023	1023	1024	1023	3799
AUG	1022	1021	1022	1022	1021	1021	1022	1022	1022	4022
SEP	1020	1019	1021	1020	1019	1018	1020	1020	1020	3644
OCT	1017	1017	1018	1018	1016	1016	1017	1018	1017	3782
NOV	1016	1015	1017	1016	1015	1015	1016	1016	1016	3513
DEC	1014	1014	1015	1014	1013	1013	1014	1014	1014	3300
ANN	1017	1017	1018	1018	1017	1017	1017	1018	1018	41405
DBS	7027	1781	8033	4358	7432	2395	8167	2212		

PERCENTILES

MT	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	994	1000	1004	1004	1012	1015	1019	1021	1025
FEB	996	1002	1005	1010	1013	1015	1019	1022	1027
MAR	1001	1004	1008	1012	1015	1018	1022	1025	1030
APR	998	1004	1008	1013	1017	1020	1025	1027	1032
MAY	999	1003	1008	1015	1019	1023	1027	1029	1035
JUN	1002	1005	1010	1017	1021	1025	1031	1035	1038
JUL	1003	1009	1014	1019	1023	1027	1032	1036	1042
AUG	1000	1005	1011	1018	1022	1026	1031	1035	1041
SEP	1000	1003	1010	1016	1020	1024	1029	1032	1038
OCT	997	1003	1007	1014	1017	1021	1025	1029	1040
NOV	999	1002	1007	1012	1016	1019	1024	1027	1033
DEC	999	1003	1006	1011	1014	1017	1020	1023	1028

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